

**WEST VIRGINIA SUB-RECIPIENT APPLICATION  
HAZARD MITIGATION GRANT PROGRAM  
STRUCTURAL**

**STATE OF WEST VIRGINIA HM SUB-GRANT APPLICATION PRE-CHECK**  
**INITIAL EACH PERTANENT LINE ITEM TO INDICATE IT IS INCLUDED**

**PROJECT NAME:** State EOC Hardening / Shelter

**PROJECT BUDGET:** **\$5,000,000.00**

☐ Private Property Demolition Removal (Participation Packet)

☒ COMPLETED HM GRANT APPLICATION

☒ COMMITMENT LETTER OF 25% MATCH (if non-federal share is not available. Check with the State for this item)

**PROJECT TYPES**

**MITIGATION RECONSTRUCTION (Demo/Rebuild)**

☐ Design to International Building Code 2009 or later.

☐ Floodplain, State and Local Ordinances.

☐ Elevation Certificate

☐ Construction Drawings (preliminary)

☐ Maps and photographs of project sites

☐ • Benefit Cost Analyst (Mitigation Reconstruction Cost Higher Than \$175,000.)

☐ Complete home owner packet: Property Inventory Form, HM Voluntary Participation Agreement, Assignment of Coverage - D, Increased Cost of Compliance Coverage/NFIP and WV Hazardous Materials Property Survey

**ELEVATION (Structurally Sound)**

☐ Elevation Certificate

☐ Maps and photographs of project sites

☐ Complete home owner packet: Property Inventory Form, HM Voluntary Participation Agreement, Assignment of Coverage - D, Increased Cost of Compliance Coverage/NFIP and WV Hazardous Materials Property Survey

**ACQUISITION/DEMOLITION (in the flood way)**

☐ Maps And Photographs Of Project Site(s)

☐ Complete home owner packet: Property Inventory Form, HM Voluntary Participation Agreement, Assignment of Coverage - D, Increased Cost of Compliance Coverage/NFIP and WV Hazardous Materials Property Survey

**Submit the Original Mitigation Application and an Electronic Copy**

**THIS SECTION FOR STATE USE ONLY**

<input type="checkbox"/> Standard HMGP	<input type="checkbox"/> Planning / Technical Assistance	<input type="checkbox"/> Application Complete						
<input type="checkbox"/> Initial Submission	<input type="checkbox"/> Resubmission							
<input type="checkbox"/> 5% Initiative								
<input type="checkbox"/> Conforms with State Plan <input type="checkbox"/> In Designated Area <input type="checkbox"/> Statewide	<b>Applicant Type:</b> <input type="checkbox"/> State or Local Government <input type="checkbox"/> Private Non-Profit (Tax ID Received) <input type="checkbox"/> Indian Tribe or Tribal Organization	<b>Project Type(s):</b> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"><input type="checkbox"/> Flood</td> <td style="width:50%;"><input type="checkbox"/> Seismic</td> </tr> <tr> <td><input type="checkbox"/> Wind</td> <td><input type="checkbox"/> Landslide</td> </tr> <tr> <td><input type="checkbox"/> Other</td> <td></td> </tr> </table>	<input type="checkbox"/> Flood	<input type="checkbox"/> Seismic	<input type="checkbox"/> Wind	<input type="checkbox"/> Landslide	<input type="checkbox"/> Other	
<input type="checkbox"/> Flood	<input type="checkbox"/> Seismic							
<input type="checkbox"/> Wind	<input type="checkbox"/> Landslide							
<input type="checkbox"/> Other								
<b>NFIP Status:</b> <input type="checkbox"/> NFIP Participant <input type="checkbox"/> In Good Standing								
State Application ID: _____		Application received on: _____						
SHMO Receiving Signature: _____		Date: _____						
State Reviewer: _____		Date: _____						
Reviewer Phone: _____								
Reviewer FAX: _____								

**Part 1: Applicant Data:**

1. Project Title:	WVDHSEM EOC Hardining / Shelter Application	FEMA Identifier: (State use only)	FEMA-4273-DR-WV
2. Project Type:	Elevation: _____	Mitigation Reconstruction: _____	Local Plan: _____
	Relocation: _____	Localized Flood Reduction: _____	Generator: _____
	Acquisition: _____	Flood-Proofing: (Historical/Commercial) <input checked="" type="checkbox"/>	Other: _____
3. State: WV	4. County: _____	5. Community: _____	
6. FIPS Code: _____	054-00000	7. DUNS Number: _____	192434900
8. Tax ID Number: _____	55-6001347	9. Community ID #: _____	
		10. State Legislative District: _____	
11. State Congressional District: _____			
12. Federal Congressional District: _____		1,2,3	
13. Is the recipient of funds a private non-profit organization? Provided 501 (c)(3)		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
14. Does the community participate in the NFIP?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
15. If yes, what date did they enter the NFIP?		2/9/1971	
16. If no, when do you anticipate entering the NFIP? _____			
17. Is the community in good standing with the NFIP?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
18. Does your community have an approved mitigation plan?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
19. Mitigation Plan Name:		2013 WV Statewide Standard Hazard Mitigation Plan Update	
20. Mitigation Plan Expiration Date:		10/17/2018	

## Part 2: Contact Information:

### 21. Primary Point of Contact:

Name:	Brian Penix	Nickname:	
Organization:	WVDHSEM	Job Title:	SHMO
Address:	1746 Coonskin Dr.	Telephone:	304-957-2572
	Charleston, WV 25311	FAX:	
		Email:	<a href="mailto:brian.m.penix@wv.gov">brian.m.penix@wv.gov</a>

### 22. Alternate Point of Contact:

Name:	Jimmy Gianato	Nickname:	
Organization:	WVDHSEM	Job Title:	Director, WVDHSEM
Address:	Capitol Complex Building 1	Telephone:	304-558-5380
	1900 Kanawha Blvd. E.	FAX:	
	Charleston, WV 25302	Email:	<a href="mailto:Jimmy.J.Gianato@wv.gov">Jimmy.J.Gianato@wv.gov</a>

### 23. Application Preparer

Name:		Nickname:	
Organization:		Job Title:	
Address:		Telephone:	
		FAX:	
		Email:	

### 24. Directions and Physical Address to the applicant office:

Take I-64 to Greenbrier Street North. Continue onto WV-114 N/Greenbrier Street. Turn left onto Coonskin Drive. I.D. is required for entry to the National Guard. Once past the guard station, continue on Coonskin Dr. to 1746 on the right.

**Part 2a: Authorized Signatures:**

The Authorized Agent and Chief Executive Officer (NOT the application preparer) MUST sign this for the application to be valid.

I certify that I am the Authorized Agent for the applicant having purview over the development and completion of this application, and all statements and information contained herein are true and accurate.



Authorized Agent's Signature

3/12/18

Date

Jimmy Gianato

Name (Typed or printed)

Director, WVDHSEM

Title

I certify that I am the Chief Executive Officer of the applicant and the above named individual is the authorized agent on



Chief Executive Officer's Signature

3/12/18

Date

Jimmy Gianato

Name (Typed or printed)

Director, WVDHSEM

Title

**Before submitting this application, ensure you have provided all requested information. An incomplete application may result in an unfavorable evaluation, or delay grant funding.**

### Part 3: Assurances:

*If the project is funded, the applicant must adopt an ordinance or other policy that demonstrates the community shall comply with the following (applicant, not applicant preparer, **MUST** initial each item.)*



The applicant **MUST** designate an Authorized Agent for the Project.



All participants **MUST** sign a statement acknowledging the program is voluntary and, therefore, are not entitled to relocation assistance under URA.



Each potential property owner **MUST** be notified in writing that, for the purpose of this program, the community shall not use its power of eminent domain for any properties if a voluntary agreement is not reached.

The following restrictive covenants shall be conveyed in the deed to any property acquired:

The property shall be dedicated and maintained in perpetuity for uses compatible with open space, recreational or wetlands management practices; and no new structure(s) shall be built on the property as indicated below:

A public restroom; or

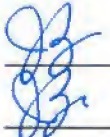
A structure that is compatible with open space, recreational or wetlands management usage and proper floodplain management policies and practices, which the Regional Administrator approves in writing before the construction begins. The premises shall remain in public ownership. After completion of the project, no application for additional disaster assistance shall be made for any purpose with respect to the property to any Federal entity or source, and no Federal entity or source will provide such assistance.




In general, allowable open space, recreational and wetlands management uses include parks for outdoor recreational activities, nature reserves, cultivation, grazing, camping (except where adequate warning time is not available to allow evacuation), temporary storage in the open of wheeled vehicles which are easily movable (except mobile homes), unimproved, previous parking lots, and buffer zones. In either event, any open space plans **MUST** have written approval from both FEMA **AND** the State.



Any structure built on the property according to the above stipulations, shall be flood-proofed or elevated to the ordinance freeboard. If the community lacks freeboard, then a minimum of the Base Flood Elevation plus two feet of freeboard is required.



A public meeting **MUST** be conducted to explain project policy and procedures.



Priority of mitigation reconstruction, elevation, relocation or acquisition of properties **MUST** be established in writing and publicized upon approval of the grant.



A standard policy of appraisal will be established for fair market value (FMV). Based on this appraisal, owners will be offered a FMV less any duplication of benefits as identified by FEMA.



In the event that the appraisal less duplication of benefits is a negative figure or less than the land only value, and the property owner still desires to sell the property in an acquisition project, the property owner will be offered the FMV of the land only (not the structure). However, the community will take deed to both the structure and land.



If subject property was purchased after the flood/event on an "as is" basis, the amount of the new post flood owner paid for the property plus any verifiable improvements will be the FMV offered. The post flood property owner will not be offered the pre-flood FMV if they were not the property owner during / before the event. In addition, any benefits the previous owner received for repair of the property will not be deducted from the offer. In no event will the offer to the post-flood owner exceed the pre-flood FMV.

JB Any tenants renting properties 90 days prior to the start of negotiations with the owner will be offered relocation assistance. Renter relocation assistance is formula driven but in no event will the relocation payment exceed \$7,200.00 plus actual moving expense.

JB Each property closing will be proceeded by a title search. The title **MUST** be clear of all liens before the community will take title to the property.

JB The property owner will agree to satisfy all liens or have the lien amount deducted from the purchase offer at the time of closing.

JB Current property owners will be responsible for the property taxes from the first of the tax year through the date specified by the community buyout policy. (e.g. either the date of closing or the date of the event) on a pro-rated basis.

JB Until the title is transferred, the property owner remains solely responsible for the property.

JB The community **WILL** submit to WVDHSEM copies of their Single Audit Act Report for the year in which the grant was received, and for each subsequent year that the community receives funding under this grant.

JB In the event that applicant fails to expend or is over advanced Federal and / or State disaster funds in accordance with Federal or State disaster assistance laws or programs, the Governor's Authorized Representative reserves the right to recapture funds in accordance with Federal or State laws and requirements.

JB The applicant will not enter into a contract with a contractor who is on the debarred contractors list.

JB The applicant will prohibit any employee, governing body, contractor, subcontractor or organization from participating in or presenting the appearance of a conflict of interest or kickbacks.

JB Budgeted line items **MUST NOT** be exceeded without prior written approval of the State **AND** FEMA. Any over-runs of budgeted items without authorization becomes the responsibility of the applicant. Failure to submit written requests for over-runs constitutes grounds for recapture of grant funds for non-performance.

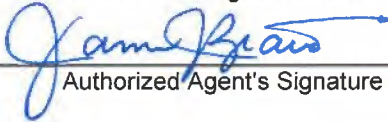
JB Both the State and FEMA reserves the right to recapture funds for non-performance of the stipulations of the grant including any open space requirements in perpetuity or other maintenance requirements.

JB The applicant **MUST** agree to a drug free work environment and that no project funds will be used for lobbying. (Attach the corresponding assurances as part of this application).

JB Any changes to the scope of this grant **MUST** have the written approval of both FEMA **AND** the State. This includes changes to the budget, the participant list and timeline. Failure to submit written requests for changes in scope constitutes grounds for recapture of funds for non-performance.

**Authorized Agent Agreement:**

Should our community be awarded FEMA funds to implement a mitigation project, we agree to the stipulations outlined above as conditions of receiving funds and implementing said project.

  
Authorized Agent's Signature

3/12/18  
Date

Jimmy Gianato  
Name (Printed or typed)

Director, WVDHSEM  
Title

**Part 4: Project Location:**

Describe, in detail, the location of your community's project. Include its topography and attach map(s) indicating all

The project is located on the West Virginia National Guard building 1703 which follows the same directions as above for Coonskin Drive but located directly across the street.

## Part 5: Explanation of the Problem / Event:

27. Describe in detail the event precipitating the need for this project and its effects on the community.

The State Emergency Operations Center (EOC) is currently located in the basement of the capitol complex building one. The capitol has been identified as being in the Special Flood Hazard Area (SFHA) for the Kanawha River. It further cannot support operations due to limitations in spacing as well as being vulnerable to both weather and human caused disasters. Structural Retrofitting of the existing structure for emergency management responders and officials and community leaders to assess the needs of their respective communities and determine the best ways to organize and strengthen their community's assets, capacities, and interests before, during and after a catastrophic event. This Hazard Mitigation project will include modifications to the structural elements of a building to reduce or eliminate the risk of future damage and to protect inhabitants. The structural elements of a building that are essential to protect or to prevent damage include foundations, load-bearing walls, beams, columns, building envelope, structural floors and roofs, and the connections between these elements.

EOC designed and construction will be to FEMA 361/ Standards if it is to be used as a shelter to house Emergency.

First Responders that cannot evacuate, and that must stay behind, during natural hazard events will be safely house at the EOC pre and post event. The engineering assessment from roof to foundation will provide data and recommendation for the feasibility of the mitigation project upgrades.

The envelop of the structure will be upgraded which includes reinforcing the roof, hardening of walls, upgrade and retrofit the windows to protect against winds, be fire resistant and water tight doors. Upgrade of EOC utilities, backup generator, commination equipment, essentials to provide emergency services pre/post event.

Hardening of the exteriors walls is as follows, grout filled cement block with exterior stone façade. Some windows are level 4 ballistic and the bottom height of all windows is a minimum of 4' from the floor providing protection if the windows are compromised by gunfire. Interior passage way doors are all prison grade with mag locks. Interior glass is all security glass. All Doors are alarmed and monitored. 360° camera view including roof and selected interior areas. Electric power is backed up with # of generators which run independently and are capable of providing power individually. All mission critical equipment is located on elevated flooring with straps and alarms under the floor to detect moisture.

## Part 6: Solutions to the Problem:

### 28. Proposed Activity:

### EOC Hardening / Shelter

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Describe in detail the proposed project activity.

--How will your proposed project address a repetitive problem, or one that poses a significant risk to public health and safety?

--Upon completion, how will the proposed project reduce the potential for future damages?

--Does the proposed project solve the problem independently, or in conjunction with other solutions? Please explain.

--Specify the number of properties / structures and the number of people that will be protected with the proposed project.

--Calculate the estimated cost, including the present cost of implementation and the future maintenance of the acquired property, as well as the potential future losses from natural disasters.

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The current EOC is located in the SFHA in the basement of the main capitol building. It is susceptible to flooding, human terror incidents and access impediments. It further is not hardened for any conditions including weather events and human caused incidents. Upon completion, the new EOC will be capable of withstanding the forces of nature, man made events and will also become a shelter for the first responders should such a situation arise. The hardening will be both interior and exterior and be self sufficient in both communications and utility systems.

**29. Alternative 1:      Construct a new EOC**

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Describe in detail another mitigation measure (e.g., elevation, wet or dry flood proofing, detention ponds, drainage ditches, etc.) that is a feasible alternative solution to the problem described.

--How will the mitigation measure solve the problem described?

--Explain how it is effective in addressing a recurrent or repetitive problem.

--Calculate the estimated cost, including the present cost of implementation and the future maintenance of the acquired property, as well as the potential future losses from natural disasters.

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Constructing a new EOC would have the same hardening effects as retrofitting an existing structure but would be cost prohibitive. The State would be required to acquire land, construct the structure in accordance to FEMA 361 and provide the redundant systems described above. It would further have to ensure both structural safety from flood, wind, earthquake and human caused incidents. The addition of the land as well as the construction of the entire structure would have to be undertaken.

**30. Alternative 2:      No Action**

Describe in detail the effects that no action would have on the problem described.

--Explain the present and future effects of doing nothing to solve the problem.

--Identify the estimated present and future costs and losses of doing nothing.

Taking no action would mean the citizens of West Virginia would still be at risk when catastrophic disasters struck.

Alternative 2 Cost      \$0.00

Potential Losses (Benefits)      \$0.00

**Part 7: Projected Source Funds:**

38. Federal Share	<u>\$3,750,000</u>
39. State Share	<u>\$0</u>
40. In Kind Service	<u>\$0</u>
41. Other Source	<u>\$1,250,000</u>

Percent 75.00%  
 Percent             
 Percent             
 Percent 25.00%  
 Other is CDBG-DR

Source FEDERAL  
 Source STATE  
 Source COMMUNITY  
 Source OTHER

## Part 8: Estimated Budget (Non-MT Reconstruction and Other):

Special care needs to be taken when estimating the project budget to ensure that the community doesn't under-estimate. An under-estimated budget can lead to a cost over-run which could result in delays and even cancellation of the grant due to non-performance. If in doubt, estimate high.

**NOTE: SUBMIT YOUR BUDGET WORKSHEET JOB AID WITH THIS APPLICATION!**

### Phase I:

A. Design Facility (Phase I)	\$145,000
B. Architectural Services (Phase I)	\$55,000
C. Structural Engineering and Design (Phase I)	\$17,000
D. Mechanical and Utility Design (Phase I)	\$22,000
E. Feasibility assessment consultation	\$20,000
<b>Sub-Total</b>	<b>\$259,000</b>

### Phase II:

F. Estimated Construction upgrade Cost [Phase II]	\$3,000,000
G. Estimated Roof and Structural upgrades	\$750,000
H. Site work preparation/mobilization/Demobilization	\$50,000
<b>Sub-Total</b>	<b>\$3,800,000</b>

### Generators / Independent Water

I. Emergency Generators	\$325,000
J. Independent Water Supply	\$308,000
K. Independent Waste Water	\$308,000
L.	\$0
<b>Sub-Total</b>	<b>\$941,000</b>

M.	\$0
N.	\$0
O.	\$0
P.	\$0
Q.	\$0
R.	\$0
<b>Sub-total</b>	<b>\$0</b>

### Project Management:

S. Travel Fees	\$0
T. Office Supplies / Equipment Fees	\$0
U. Phone Fees	\$0
W. Project Manager Fees	\$0
X. Time and Attendance Fees	\$0
Y. Other Project Management Fees (Give Details)	\$0
<b>Sub-total</b>	<b>\$0</b>

### Other Project Expenses (Give Details):

AA.	\$0
BB.	\$0
CC.	\$0
DD.	\$0
<b>Sub-total</b>	<b>\$0</b>

**GRAND TOTAL \$5,000,000**

**Part 8a: Estimated Budget (MT Reconstruction ONLY):**

Special care needs to be taken into account for Mitigation Reconstruction funding. Line items are for the major items found in a reconstruction. INCLUDE THE MITIGATION RECONSTRUCTION WORKSHEET WITH YOUR APPLICATION!

**NOTE: SUBMIT YOUR BUDGET WORKSHEET JOB AID WITH THIS APPLICATION!**

**39. Project Scoping:**

A. Property Verification (Legal)	\$0
B. Preliminary Elevation Determination	\$0
C. Environmental Site Assessment Phase	\$0
D. Engineering Feasibility Study (e.g., Can an existing structure be elevated? Is mitigation reconstruction feasible?)	\$0
E. Benefit-Cost Analysis	\$0
F. Title Search	\$0
<b>Sub-Total</b>	<b>\$0</b>

**40. Pre-construction Activities:**

G. Site Survey	\$0
H. EHP Testing / Analysis	\$0
I. Permitting	\$0
J. Architectural Design and Plan Development	\$0
K. Architectural Plan Review	\$0
<b>Sub-Total</b>	<b>\$0</b>

**41. Construction Activities Exterior:**

L. Disposal of routine asbestos, lead-based paint, and household	\$0
M. EHP mitigation	\$0
N. Demolition NOT covered by 407 Mitigation	\$0
O. Erosion control / grading / drainage	\$0
P. Utility Connections	\$0
Q. Site Stabilization (e.g., Seeding)	\$0
R. Walkways and Driveways	\$0
S. Elevated Foundation Construction	\$0
T. Inspection of Foundation System	\$0
U. Framing	\$0
V. Exterior Doors	\$0
W. Windows (includes protection)	\$0
X. Access / Egress	\$0
Y. Exterior Cladding	\$0
Z. Roofing	\$0
<b>Sub-Total</b>	<b>\$0</b>

**42. Construction Activities Interior:**

AA. Drywall	\$0
AB. Trim	\$0
AC. Painting	\$0
AD. Interior Doors	\$0
AE. Insulation	\$0
AF. Interior Partitioning	\$0
<b>Sub-total</b>	<b>\$0</b>

**43. Construction Activities Utility Equipment:**

AG. Heating, Ventilation, and Air Conditioning	\$0
AH. Plumbing	\$0
AI. Electrical	\$0
AJ. Hot Water System	\$0
<b>Sub-total</b>	<b>\$0</b>

**44. Construction Activities Fixtures:**

AK. Sinks / Toilets / Showers	\$0
AL. Lighting	\$0
AM. Cabinets and Countertops	\$0
AN. Flooring	\$0
<b>Sub-total</b>	<b>\$0</b>

**45. Construction Finalization and Certification:**

AO. Building Inspections	\$0
AP. Certificate of Occupancy	\$0
AQ. Final Elevation Certificate	\$0
AR. Tenant Displacement Costs	\$0
AS. Recorded Final Deed Restriction Costs (Legal)	\$0
<b>Sub-total</b>	<b>\$0</b>
<b>GRAND TOTAL</b>	<b>\$0</b>

## Part 9: Work Schedule:

42. The work schedule sets the performance period for the project. The maximum time allowed for mitigation projects is 3 years (1095 Days). If the community under-estimates the project time, delays can occur while extension requests are processed. Furthermore, extensions can only be granted in 90 day increments a total of two times. Care should be taken when estimating times. Take into account time of year (weather factor) when estimating.

[illegible]

42. The work schedule sets the performance period for the project. The maximum time allowed for mitigation projects in the community under-estimates the project time, delays can occur while extension requests are processed. Furthermore, € 90 day increments a total of two times. Care should be taken when estimating times. Take into account time of year (w

**Total Number of 36 Mont**

### Part 10: Property Inventory Summary:

43. List all the properties, **in alphabetical order**, to be considered in this application. Properties that are to be considered "over subscription" **MUST** be marked as such. Properties not on this inventory will not be considered for this project. **Ensure that the sequence number matches the property site inventories and that all the inventories are accounted for. This number will be used later in the project to identify the structure.**

[illegible]

44. List all renters that qualify for the Uniform Relocation Assistance Act (URA) funding here. To qualify for URA, a renter must have occupied the property 90 days prior to negotiations (closing). Occupation at the time of the event does NOT qualify a tenant for URA if they have moved because of the event.

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## Part 12: Environmental, Historical and Socioeconomic Information:

45. For each Hazard Mitigation alternative your community is considering, answer "Yes", "No", "Possibly" or "Don't Know" to each question. Then compare the columns. The column with the most "No" answers is the most community-friendly alternative.

	Proposed Activity	Alternative	No Action
<b>Socioeconomic and Land Use Issues</b>			
46. Will the project hinder or violate general land use in the area?	No	Possibly	No
47. Will the project conflict with local zoning ordinances?	No	No	No
48. Will any structures be relocated?	No	No	No
49. Will the project negatively affect area economic activities?	No	No	No
50. Will the project have a disproportionately high or adverse impact on a minority or low income population?	No	No	Yes
51. Will the project decrease or hinder prime farmland?	No	No	No
<b>Natural Resources</b>			
52. Will marine, aquatic or terrestrial vegetation be removed?	No	No	No
53. Will there be construction in marshlands or wetlands?	No	No	No
54. Will the project adversely affect any wetland areas?	No	No	No
55. Will the project impact wetlands? (flood, drain, excavate, dredge, fill, shade, etc.)	No	No	No
56. Do endangered or rare species live in the project area?	Unknown	Unknown	No
57. Is the project area in or near a wildlife conservation area?	Possibly	Possibly	No
<b>Natural Resources</b>			
58. Are there any properties that appear to be 50 years of age included in your project? (if yes, please provide a list of these properties with the owner(s) name, address, map and parcel numbers and photographs of all four sides of the structure).	Yes	No	Yes
59. Does the project area have any archeological, cultural or historical significance?	No	Unknown	No
60. Is your project located within or near a National Register listed historic district, or are any of the properties individually listed on the National Register of Historic Places? (If in or near a district, please enclose a sketch map of the district, which outlines the project targets.)	No	No	No
61. Has the project properties / neighborhood ever been reviewed for its eligibility for the National Register of Historic Places?	No	No	No
62. Has a survey to locate archeological sites and / or historic structures been carried out on the project area? If so, please provide a copy of the survey with this application indicating the date of the survey, the firm who did the survey, and if the survey is on record with the State Historic Office.	No	No	No
63. Will the project require excavation or disturbance of soil?	Yes	Yes	No
64. Has there been a public meeting, which provided an opportunity for public comment regarding various mitigation options? If yes, please attach details describing the meeting venue(s), date(s), and attendance.	Yes	No	No
<b>Total "No" Responses</b>	<b>14</b>	<b>14</b>	<b>12</b>

### Part 13: Environmental Information:

65. Consider hazardous materials that may be found on the properties you plan to mitigate. Answer "Yes," "No," "Possibly," or "Don't know" to each of the following questions. If the answer is "Yes" for even one property, then answer "Yes" to the question. For any question to which you answered "Yes" or "Possibly," please attach additional pages using "overflow" explaining each hazardous material and planned abatement. If there is enough room on this page to answer any question other than "no", you may answer them on this page.

66. Were the properties previously or are the properties currently used for commercial, light industrial, transportation or institutional purposes?	No
67. Are there any above ground storage tanks, underground storage tanks, or leaking storage tanks present on the properties?	No
68. Is there presently, or has there been in the past, any generation, treatment, storage, disposal, release, or spill of petroleum products, solid or hazardous substances and/or wastes, other than normal quantities of household substances on the properties?	No
69. Have unusual odors or discoloration been noticed in the soil, or drinking or surface water on or near the properties?	No
70. Are there any past or ongoing environmental investigations conducted by federal, state, local government agencies, or private firms; or Occupational Safety and Health Administration (OSHA) citations or notices of violation on the properties related to environmental or toxic hazards?	No
71. Will there be abatement of any hazardous materials (e.g., lead, asbestos, septic tanks, heating oil tanks, etc.) on any of the properties? Identify and describe.	Possibly
72. Are there any other issues or concerns associated with hazardous or toxic materials on the properties? (i.e. Asbestos siding and roofing material)	Possibly

#### Part 14: Historical and Socioeconomic Narrative Questions:

Please respond to the following in regard to the community's proposed solution.

73. Identify and describe any historic resources on or near any of the properties. Explain how the project will affect those historic resources.

None

74. Identify and describe any archeological sites on or near any of the properties. Explain how the project will affect those archeological sites.

None

75. Identify and explain any significant cultural or social issues that might affect or be affected by the project.

None

76. Identify and explain any economic concerns or issues that might affect or be affected by the project.

Failure to implement the project could leave the State vulnerable to catastrophic disaster without response. The economic impact of such a disaster is considered to be in the millions as well as a significant loss of life.

#### Part 15: Public Notification Sources:

77. Federal and State law requires public participation associated with the project. Please state below the media outlets used in your project area to ensure public participation.

Local Newspaper Name

Address 1

Address 2

Phone Number

Circulation Type (Daily, weekly,

If weekly, what day of the week is

**Newspaper most often read (if different from above)**

Other Media Outlet Name

Address 1

Address 2

Phone Number

Distribution Day?

Attach copies of any articles to this application.

**Part 16: Post Project Land Use (Acquisition / Demolition only):**

78. Describe the community's intentions for the use of any acquired land after project completion.

State on the line provided below who will maintain the project (Community where the project work occurred).

Community or private non-profit environmental entity maintainer:

WVDHSEM

**Part 17: Agency Contacts:**

THIS SECTION FOR STATE / FEMA USE ONLY	
Identify the State and Federal agencies contacted in the development of the project and in the preparation of the environmental	
<input type="checkbox"/>	State Historic Preservation Office
<input type="checkbox"/>	US Fish and Wildlife
<input type="checkbox"/>	State Division of Environmental Protection
<input type="checkbox"/>	State Division of Natural Resources
<input type="checkbox"/>	US Department of the Interior
<input type="checkbox"/>	US Environmental Protection Agency
<input type="checkbox"/>	US Geological Survey
<input type="checkbox"/>	US Natural Resources Conservation Service
<input type="checkbox"/>	State Department of Social Services (DHHR)
<input type="checkbox"/>	Other (Specify) _____

79. The applicant should contact the following agencies for acquisition / demolition and relocation projects for notification

State Department of Transportation	Date of Contact	_____ N/A
	Date of Response	_____ N/A
Army Corps of Engineers	Date of Contact	_____ N/A
	Date of Response	_____ N/A

81. Use the space below to name and number ALL the attachments and enclosures. If you need more lines, use the "overflow" tab below.

Be sure to include the following:

N/A	Individual Participant Forms	N/A	Elevation Certificates
X	4 Photos (per Structure)	X	Construction Drawings Preliminary (Mitigation)
N/A	Property Tax Records	X	Benefit Cost Analysis
X	Maps of project areas	N/A	Letters from environmental agencies
X	Street maps	N/A	Advertisements (Public notices) for project meetings
N/A	Resolutions supporting the application	N/A	Sign-in sheets for public meetings
N/A	Clearance letters from DOT	N/A	Letters on fair housing, hazardous materials and minority
N/A	Clearance letters from ACOE	X	Engineering documents
N/A	Authorized agent resolution		

[illegible]

**Building Size and Use:** The existing drill hall for the WVARNG Armory is approximately 7,000 SF in size and is used for drill exercises (troop formations, etc.) and assemblies (instructional/informational).

**Building Value:** The approximate value of the existing WVARNG Armory Drill Hall building is \$2,100,000.00 (based on current construction values). The approximate value of the new EOC (building only) is \$3,500,000.00 (based on current construction values; building equipment/furnishings would add approximately \$1,000,000.00 to this construction value).

**Building Contents:** The building currently contains two wall-mounted basketball hoops, tables, chairs and a stage.

**Displacement Costs:** The rental cost for room(s) of comparable size at the Charleston Civic Center for the drill hall/EOC purposes is approximately \$2,500.00 per day.

**Rent and Business Income:** The rental rate for the Drill Hall breaks down as follows.

Commercial Rental Rate: Flat fees below may be used if fees are based on rates below and an estimate of the number of persons who would normally attend this type of event or activity is used.

Admission Charged: 30 cents per person or 10% of the Admission Charge (exclusive of taxes) whichever is greater

No Admission Charged: 30 cents per person plus 5% of gross revenue (concessions, programs, souvenirs, other articles, auctions) (exclusive of taxes)

Flat Rental Fees:	\$40.00 (0-200 persons)
	\$80.00 (200-400 persons)
	\$100.00 (over 400 persons)

Non-Commercial Rental Rate: Flat fees below may be used if fees are based on rates below and an estimate of the number of persons who would normally attend this type of event or activity is used.

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Flat Rental Fees:	\$60.00
-------------------	---------

*Charges for all drill hall rentals (commercial or non-commercial) include the following fees.*

Operating Charges: \$15.00

Utilities: \$15.00

Variable Operating Charges: \$21.63/hr (Caretaker Rate)

\$10.63/hr (Extra Help Rate)

\$1.00 ea. (Tables over 30)

\$10.00 (Ice, 0-200)

\$2.00 per section (Wood Stage, 8 Sections)

Managerial Committee: 20% TOTAL FEE (Maximum)

Clerical Fees: \$10.00 per contract (Maximum)

**Building Size and Use:** The existing drill hall for the WVARNG Armory is approximately 7,000 SF in size and is used for drill exercises (troop formations, etc.) and assemblies (instructional/informational).

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\$2.00 per section (Wood Stage, 8 Sections)

Managerial Committee: 20% TOTAL FEE (Maximum)

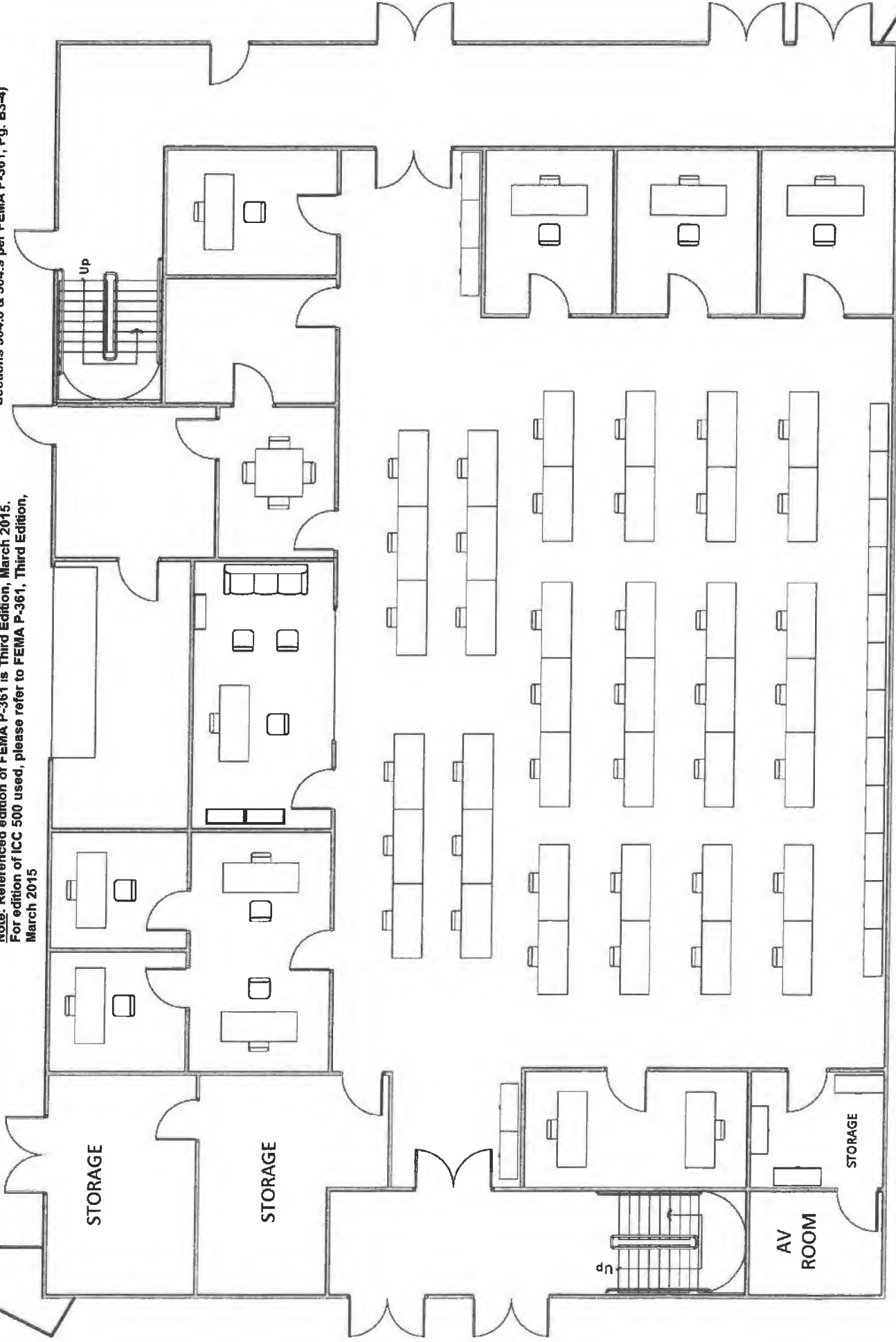
Clerical Fees: \$10.00 per contract (Maximum)

Walls, doors and other exterior openings designed for 250 MPH winds per FEMA P-361 (pg. B3-7, Figure B3.1 and Pg. 3-14, Tornado wind speed design notation) and in consideration of safe rooms within host building (ICC 500 Sections 304.8 & 304.9 per FEMA P-361, Pg. B3-4)

**Note:** Structure mounted to existing concrete slab or a replacement slab below proposed multi-use safe room. "Latest in ICC 500 Storm Shelter and FEMA Safe Room Requirements" presentation by Bob Franke, FEMA Region VII

**Note:** Referenced edition of FEMA P-361 is Third Edition, March 2015. For edition of ICC 500 used, please refer to FEMA P-361, Third Edition, March 2015

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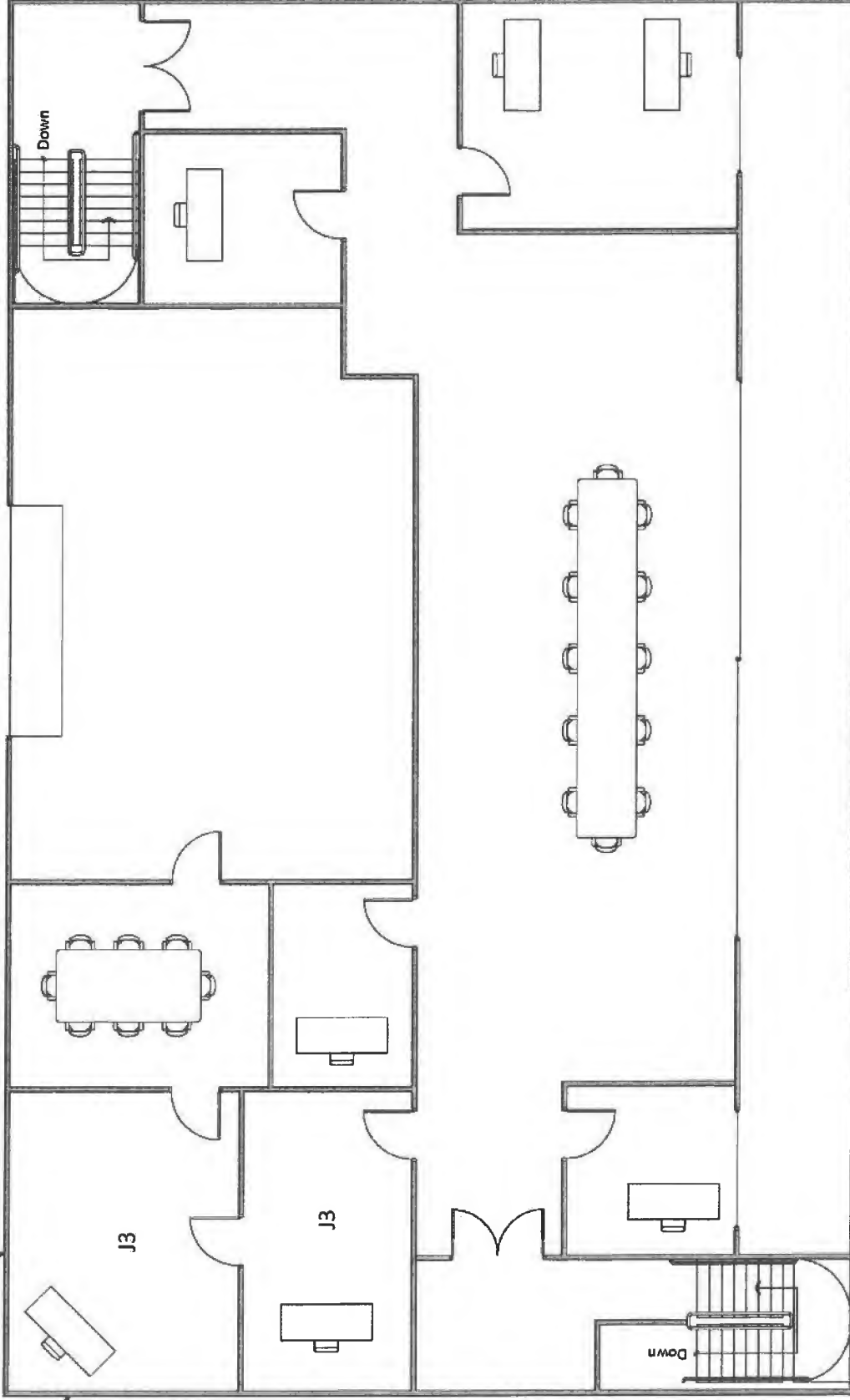
**First Floor of Multi-Use Safe Room located at Charleston WVNG JFHQ on existing Drill Hall floor**

Walls, doors and other exterior openings designed for 250 MPH winds per FEMA P-361 (pg. B3-7, Figure B3.1 and Pg. 3-14, Tornado wind speed design notation) and in consideration of safe rooms within host building (ICC 500 Sections 304.8 & 304.9 per FEMA P-361, Pg. B3-4)

Note: Roof of interior structure to be designed according to FEMA P-361 and related editions of ICC 500 and ASCE 7-10.

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Flat Rental Fees:

\$40.00 (0-200 persons)

\$80.00 (200-400 persons)

\$100.00 (over 400 persons)

Non-Commercial Rental Rate: Flat fees below may be used if fees are based on rates below and an estimate of the number of persons who would normally attend this type of event or activity is used.

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Flat Rental Fees:

\$60.00

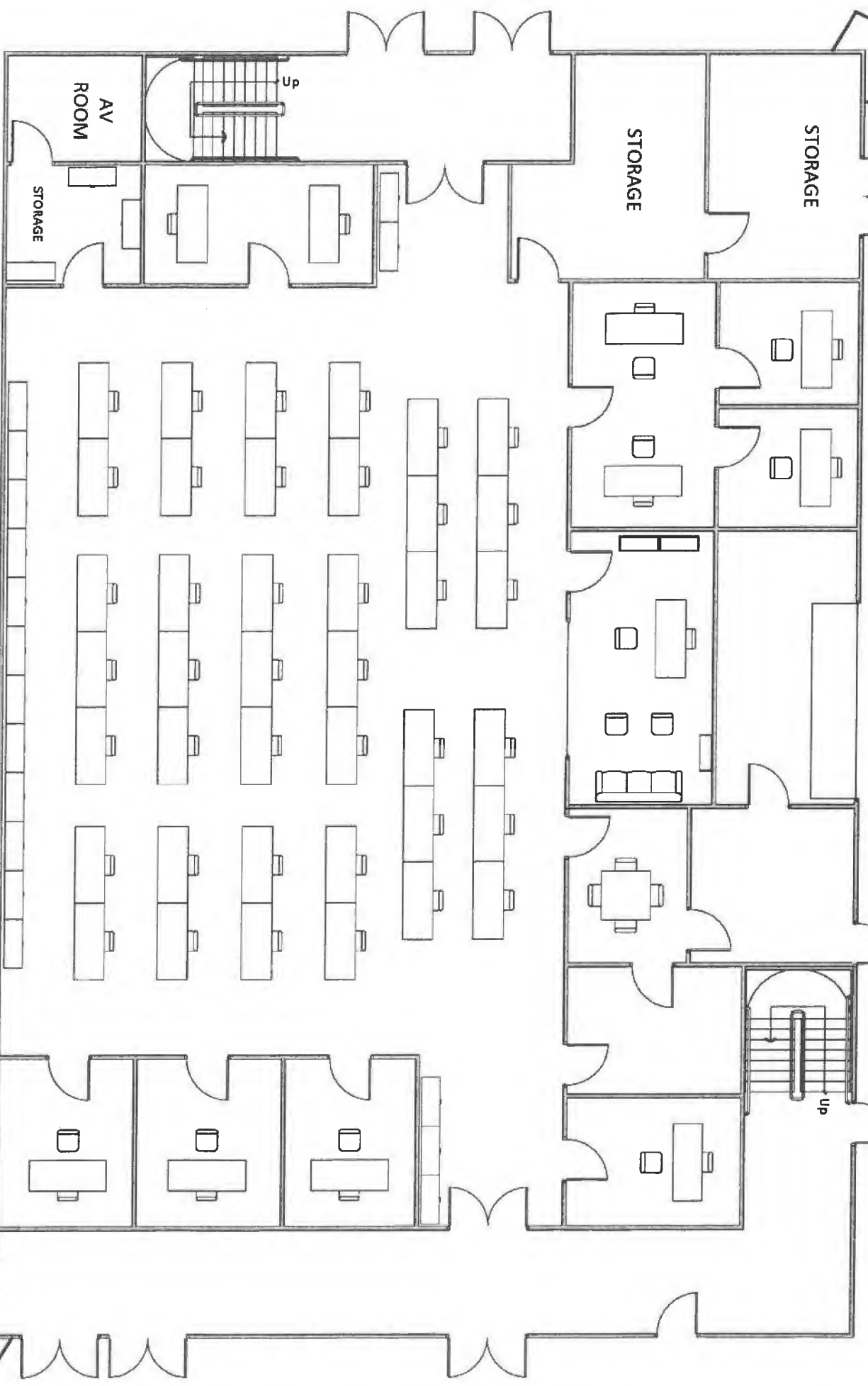
Charges for all drill hall rentals (commercial or non-commercial) include the following fees.

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Utilities:	\$15.00
Variable Operating Charges:	\$21.63/hr (Caretaker Rate)
	\$10.63/hr (Extra Help Rate)
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Note: Structure mounted to existing concrete slab or a replacement slab below proposed multi-use safe room presentation by Bob Franke, FEMA Region VII

Note: Referenced edition of FEMA P-361 is Third Edition, March 2015. For edition of ICC 500 used, please refer to FEMA P-361, Third Edition, March 2015



First Floor of Multi-Use Safe Room located at Charleston WVNG JFHQ on existing Drill Hall floor

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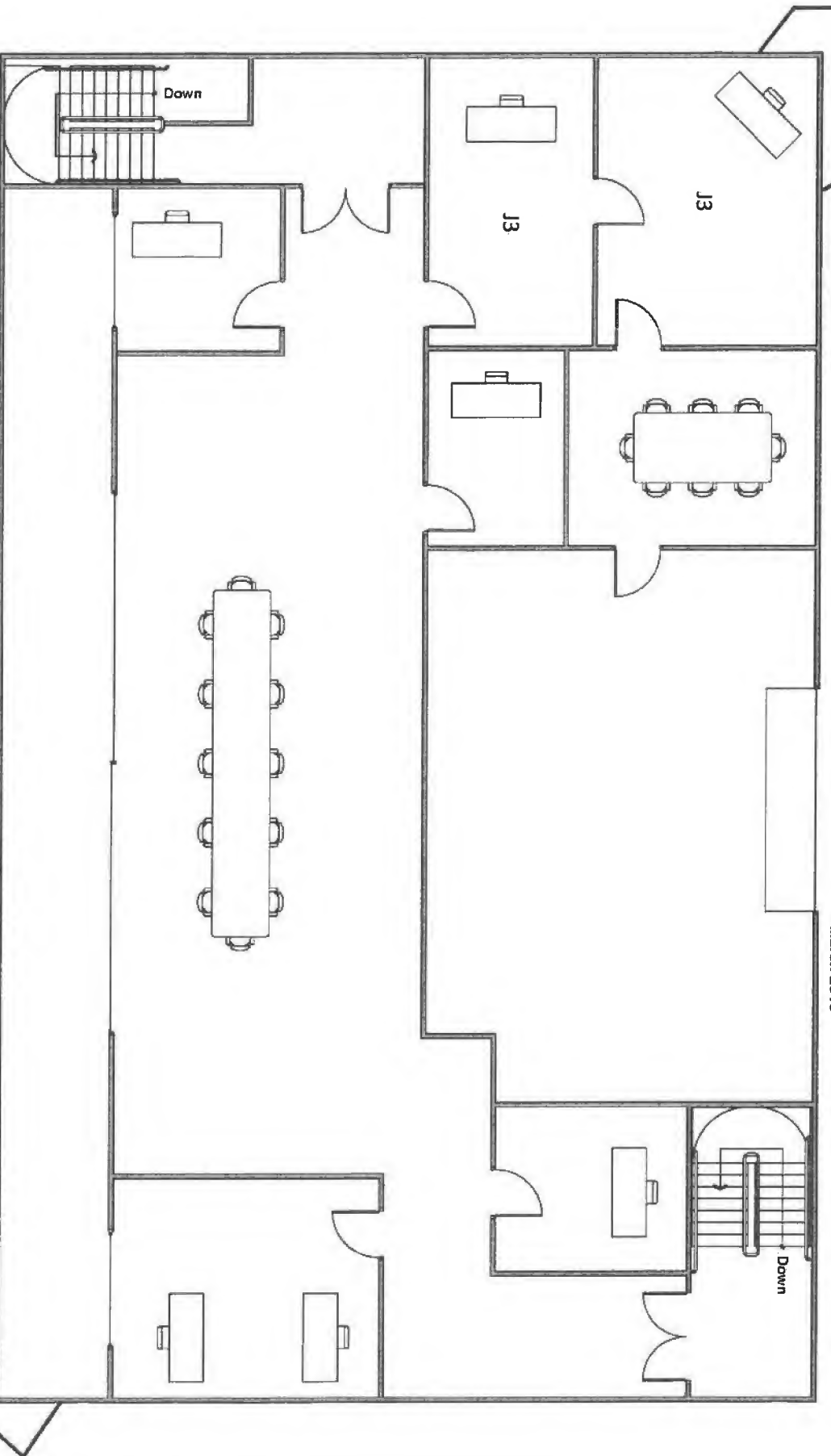
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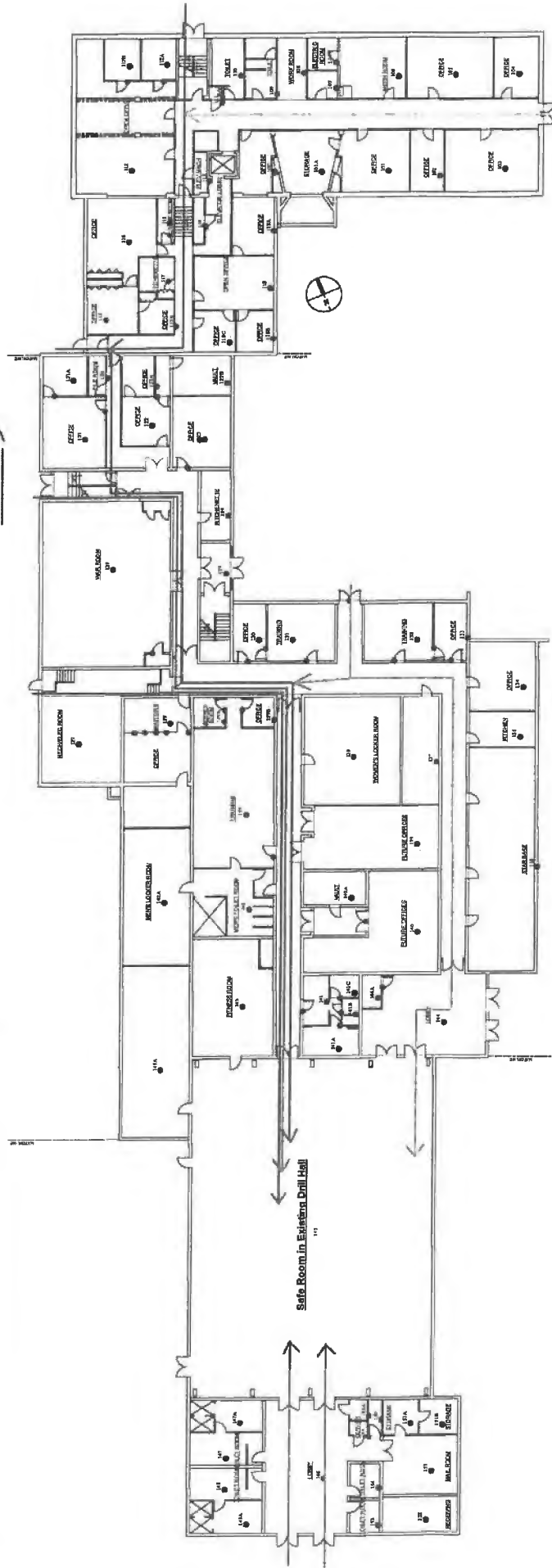
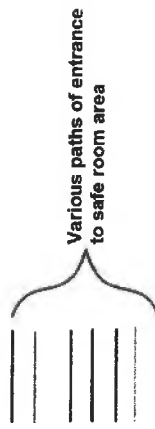
Walls, doors and other exterior openings designed for 250 MPH winds per FEMA P-361 (pg. B3-7, Figure B3.1 and Pg. 3-14, Tornado wind speed design speed notation) and in consideration of safe rooms within host building (ICC 500 Sections 304.8 & 304.9 per FEMA P-361, Pg. B3-4)

Second Floor of Multi-Use Safe Room located at Charleston WVNG JFHQ on existing Drill Hall floor

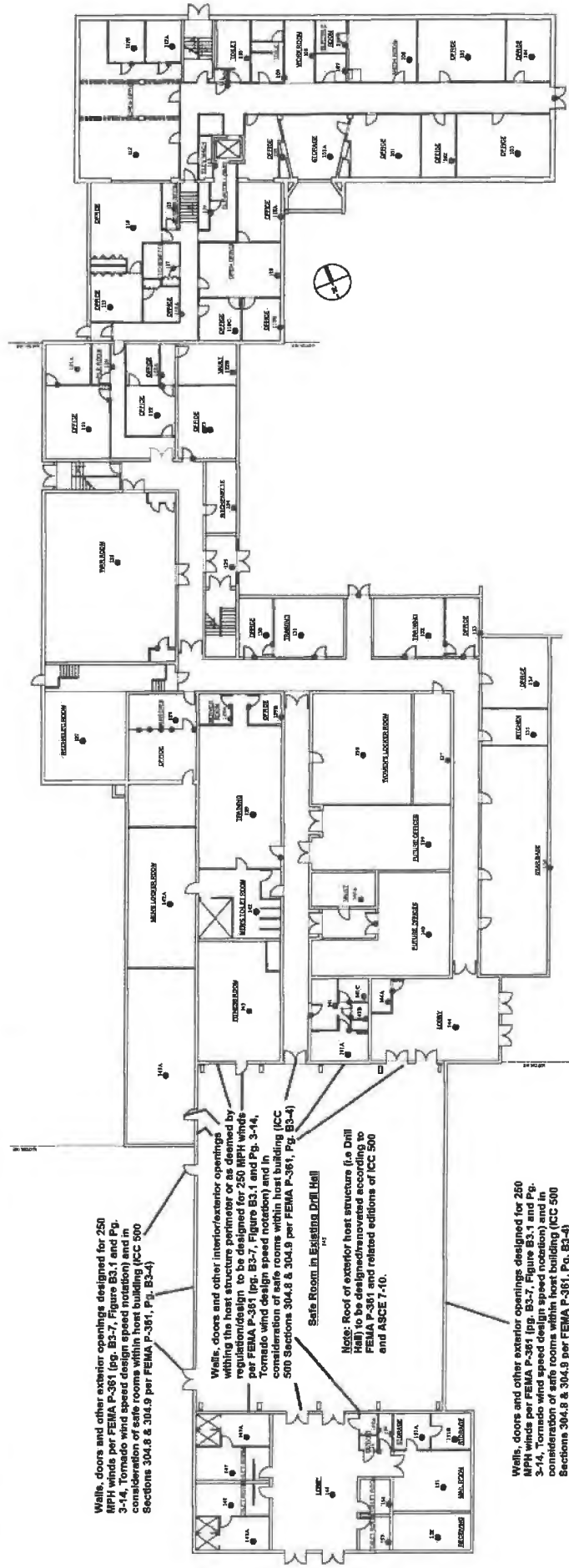
# West Virginia National Guard Armory Main Building Floor Plan

100 50 0 100 Feet

NOTE: Color lines indicate the paths of entrance available to the safe room area from the interior and exterior of the existing building



# West Virginia National Guard Armory Main Building Floor Plan



# **FIRST FLOOR PLAN**

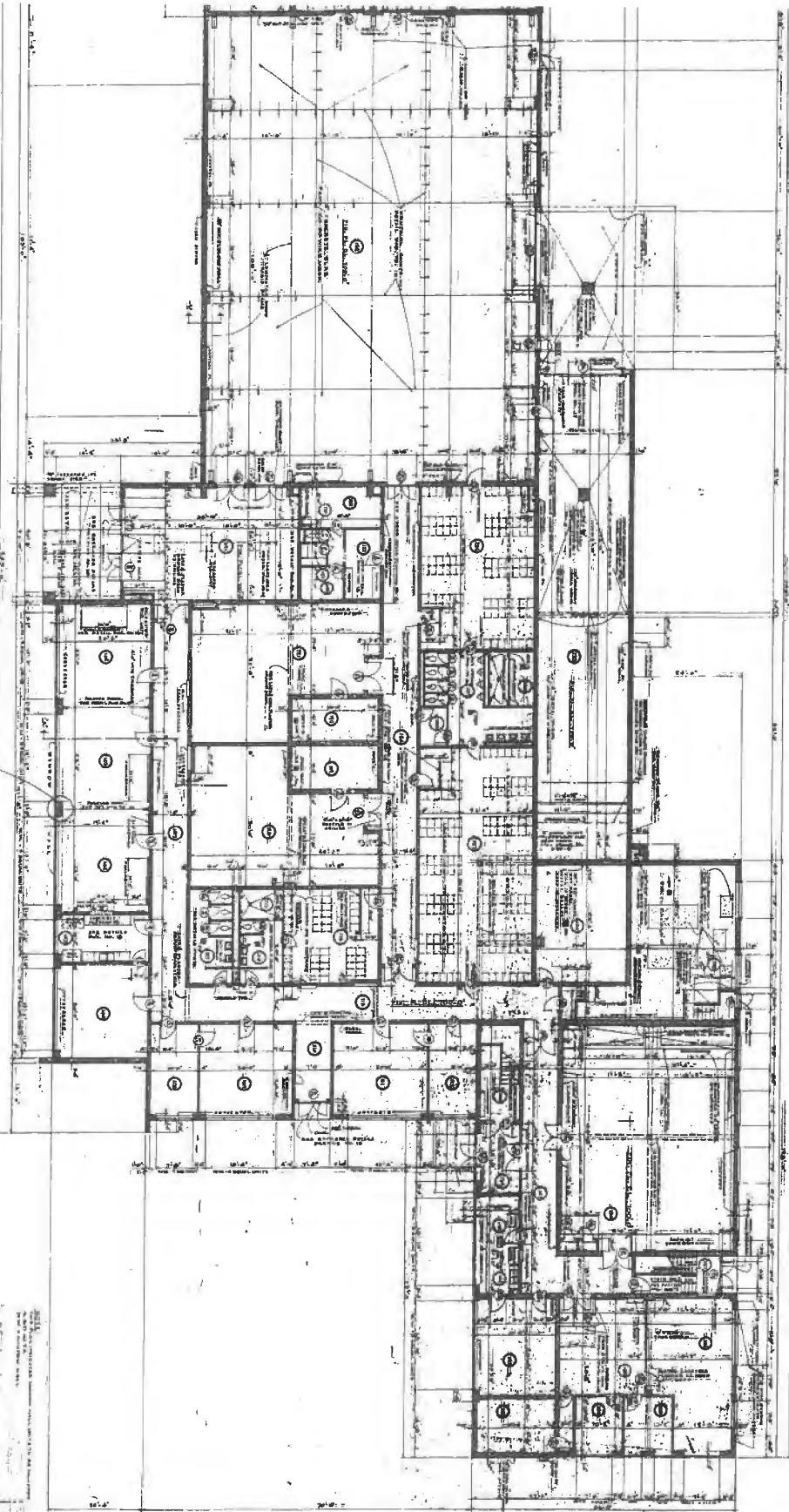
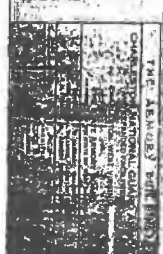
THIS FLOOR PLAN IS A REPRODUCTION OF THE ORIGINAL DRAWING. IT IS NOT TO BE USED FOR CONSTRUCTION PURPOSES. IT IS FOR INFORMATION ONLY.

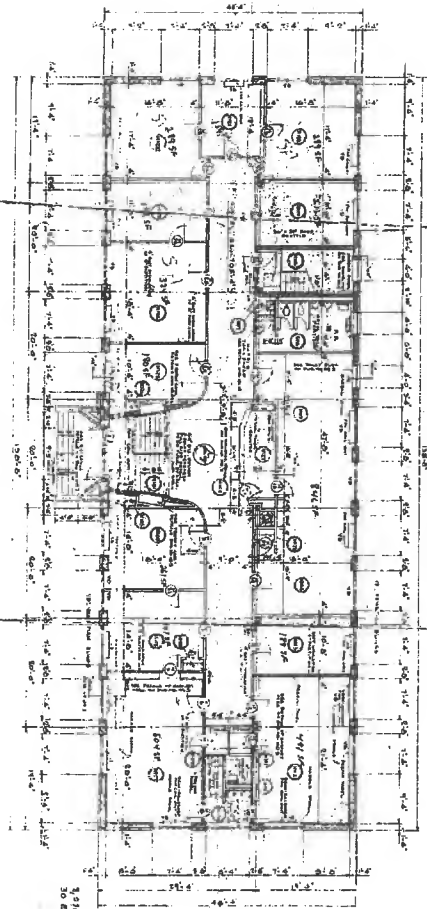
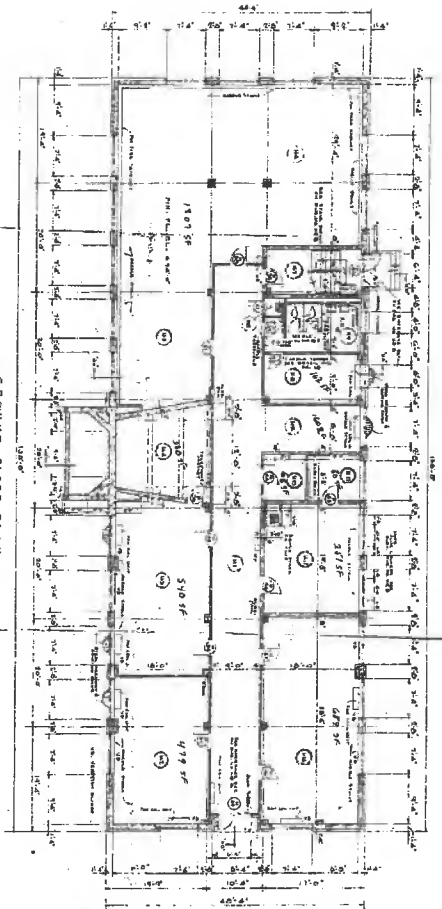
## **ATTACHED DETAIL**



ALL DIMENSIONS ARE IN FEET AND INCHES.

THESE ARE THE ORIGINAL DRAWINGS.



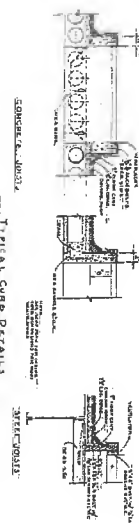
[illegible]

2,030 TP are USMAHS covered insured.  
30 EMPLOYEES @ \$6.95 for Employees.

THE HEADQUARTERS BUILDING  
CHARLESTON NATIONAL GUARD ARMORY

THE HEADQUARTERS BUILDING CHARLESTON NATIONAL GUARD ARMORY AND EXPANDED FACILITIES CHARLESTON, WEST VIRGINIA THE STATE LANDOFF BOARD AN AGENCY OF THE STATE OF WEST VIRGINIA OFFICE OF THE STATE ENGINEER, CHARLESTON 1000 11TH STREET, S.W. WASHINGTON, D.C. 20004-4247 * U.S. OFFICE OF RECONSTRUCTION AND DEVELOPMENT, WASHINGTON, D.C. 20548	90 JAN 1901	HANCOCK & HANCOCK CONSULTING & ARCHT 1000 11TH STREET, S.W. WASHINGTON, D.C. 20004-4247	HQ-2
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--- TYPICAL CURB DETAILS ---  
 .. Scale: 3/8" = 1'-0"

SYSTEMS

100% COTTON T-SHIRT

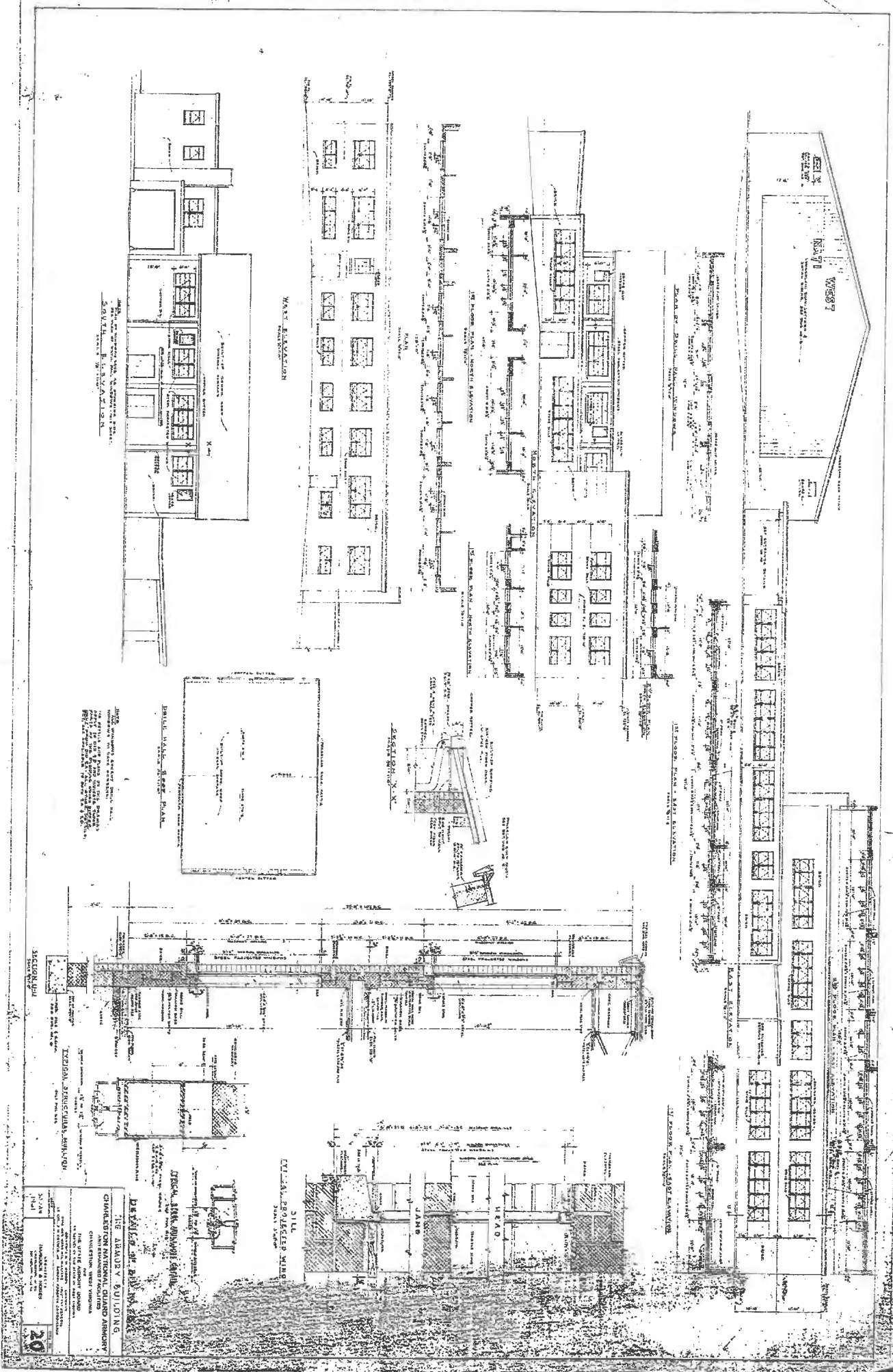
5. FLOOR FEEDER - LOW LEVEL ROOF PLAN

and 2009. Telephone: 603.281.1000.

STEEL JACKET DETAIL

BRACKET-DENTAL

THE ARMOY BUILDING  
CHARLESTON NATIONAL GUARD AND  
ARMED SERVICES FACILITIES  
CHARLESTON WEST VIRGINIA  
740

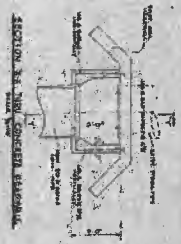


THE ARSENAL BUILDING  
CHARLESTON NATIONAL GUARD ARMOY  
CHARLESTON, SOUTH CAROLINA  
ARCHITECT: J. H. HARRIS  
ENGINEER: J. H. HARRIS  
DATE: 1917





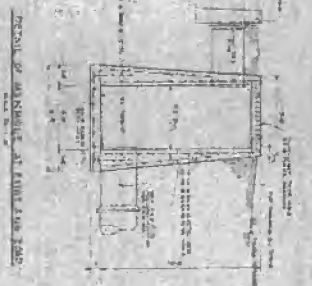
TYPICAL WINDOW



SECTION OF DOOR AND WINDOW ASSEMBLY



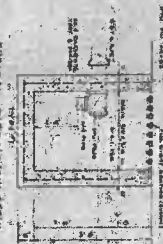
DETAIL OF WINDOW FRAME AND SILL



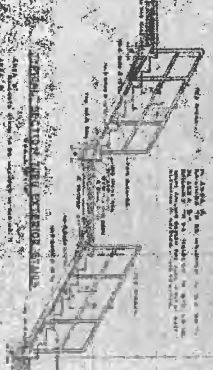
DETAIL OF WINDOW FRAME AND SILL



DETAIL OF DOOR FRAME AND SILL



TYPICAL DOOR

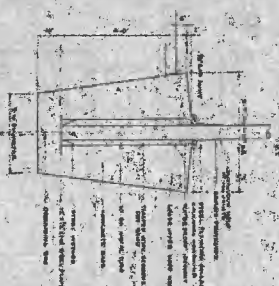


SECTION OF DOOR AND WINDOW ASSEMBLY



DETAIL OF WINDOW FRAME AND SILL

REVOLVING DOOR & SILL



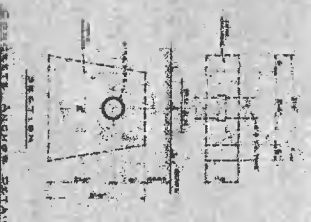
REVOLVING DOOR & SILL



DETAIL OF WINDOW FRAME AND SILL



DETAIL OF WINDOW FRAME AND SILL



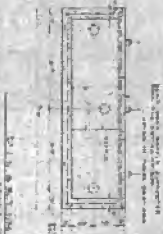
SECTION OF DOOR AND WINDOW ASSEMBLY



DETAIL OF WINDOW FRAME AND SILL



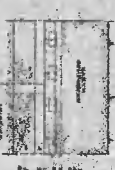
DETAIL OF WINDOW FRAME AND SILL



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DETAIL OF WINDOW FRAME AND SILL



DETAIL OF WINDOW FRAME AND SILL

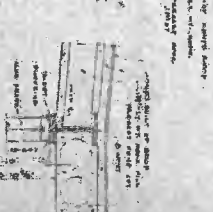
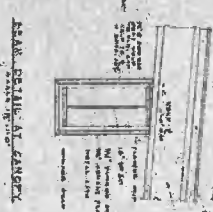
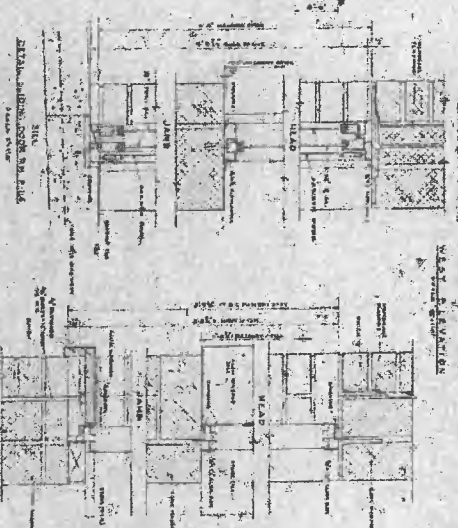
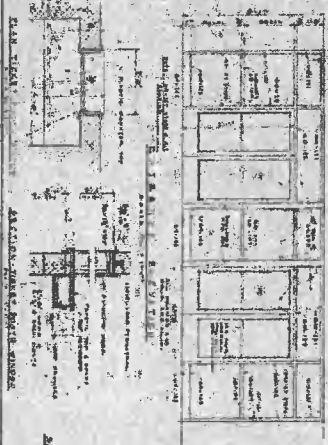
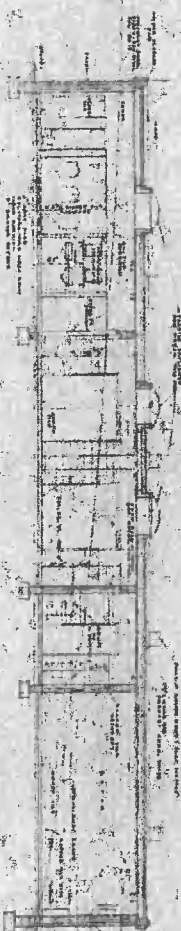
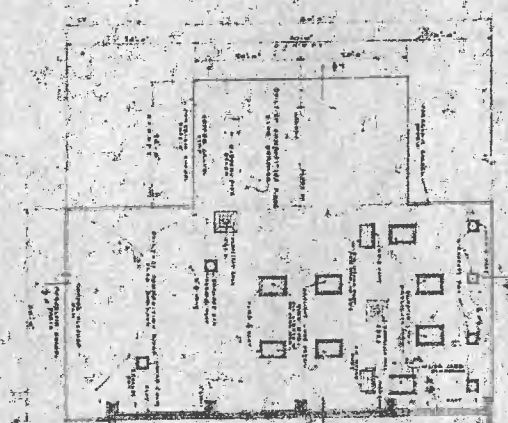
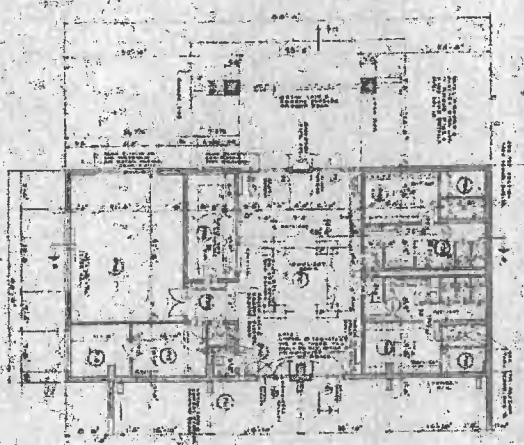


DETAIL OF WINDOW FRAME AND SILL

CLASPOL, DETAILS

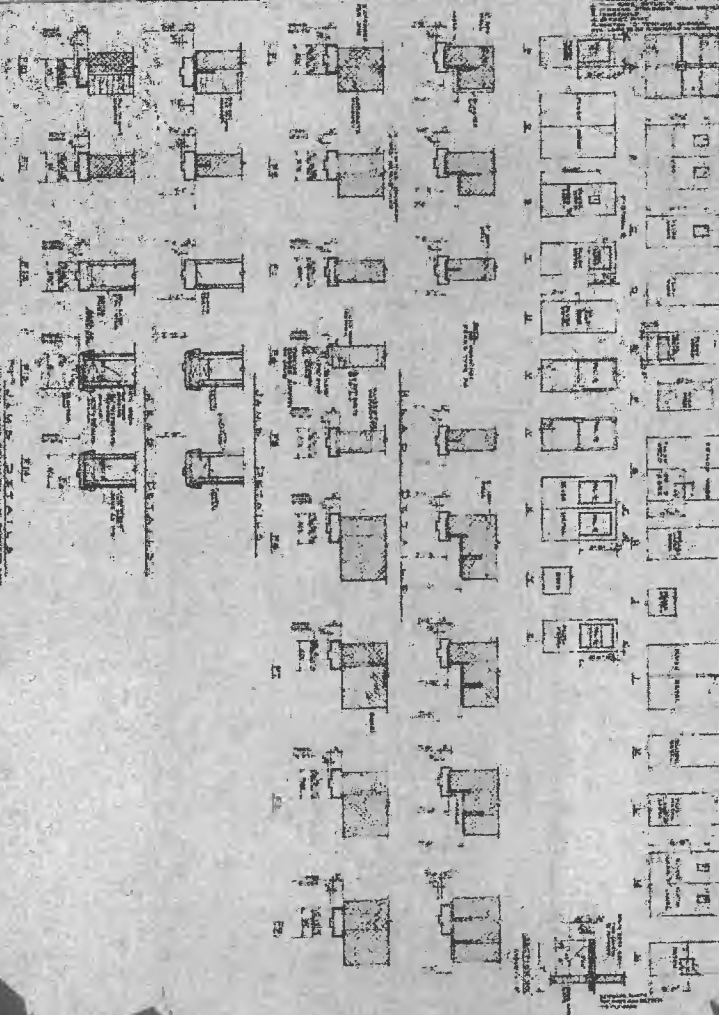
BID NO. 6

DATE	DESCRIPTION
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1942	CONSTRUCTION OF BUILDING
1943	CONSTRUCTION OF BUILDING
1944	CONSTRUCTION OF BUILDING
1945	CONSTRUCTION OF BUILDING
1946	CONSTRUCTION OF BUILDING
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<p>ALBERTA          THE PROVINCIAL          ARCHITECTURE          DEPARTMENT          100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000</p>	
<p>19</p>	<p>19</p>

Room No.	Description	Area	Remarks
1	Entrance	100	
2	Corridor	50	
3	Office	120	
4	Storage	80	
5	Workshop	150	
6	Restroom	30	
7	Kitchen	60	
8	Dining Room	100	
9	Living Room	120	
10	Bedroom	100	
11	Bath	30	
12	Laundry	40	
13	Garage	200	
14	Storage	100	
15	Workshop	150	
16	Restroom	30	
17	Kitchen	60	
18	Dining Room	100	
19	Living Room	120	
20	Bedroom	100	
21	Bath	30	
22	Laundry	40	
23	Garage	200	
24	Storage	100	
25	Workshop	150	
26	Restroom	30	
27	Kitchen	60	
28	Dining Room	100	
29	Living Room	120	
30	Bedroom	100	
31	Bath	30	
32	Laundry	40	
33	Garage	200	
34	Storage	100	
35	Workshop	150	
36	Restroom	30	
37	Kitchen	60	
38	Dining Room	100	
39	Living Room	120	
40	Bedroom	100	
41	Bath	30	
42	Laundry	40	
43	Garage	200	
44	Storage	100	
45	Workshop	150	
46	Restroom	30	
47	Kitchen	60	
48	Dining Room	100	
49	Living Room	120	
50	Bedroom	100	
51	Bath	30	
52	Laundry	40	
53	Garage	200	
54	Storage	100	
55	Workshop	150	
56	Restroom	30	
57	Kitchen	60	
58	Dining Room	100	
59	Living Room	120	
60	Bedroom	100	
61	Bath	30	
62	Laundry	40	
63	Garage	200	
64	Storage	100	
65	Workshop	150	
66	Restroom	30	
67	Kitchen	60	
68	Dining Room	100	
69	Living Room	120	
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71	Bath	30	
72	Laundry	40	
73	Garage	200	
74	Storage	100	
75	Workshop	150	
76	Restroom	30	
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78	Dining Room	100	
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81	Bath	30	
82	Laundry	40	
83	Garage	200	
84	Storage	100	
85	Workshop	150	
86	Restroom	30	
87	Kitchen	60	
88	Dining Room	100	
89	Living Room	120	
90	Bedroom	100	
91	Bath	30	
92	Laundry	40	
93	Garage	200	
94	Storage	100	
95	Workshop	150	
96	Restroom	30	
97	Kitchen	60	
98	Dining Room	100	
99	Living Room	120	
100	Bedroom	100	

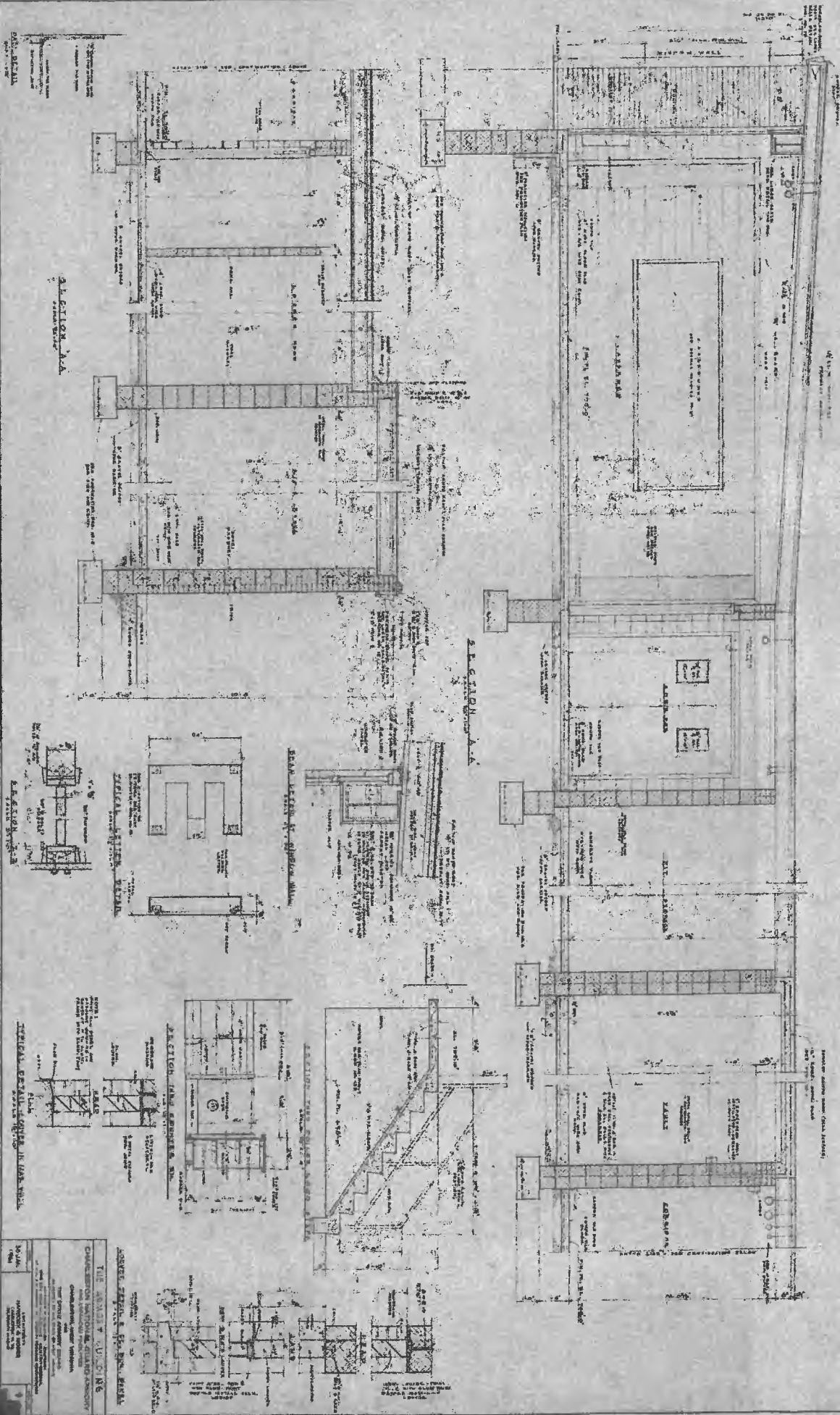


ARMORY BUILDING - ROOM FINISH SCHEDULE

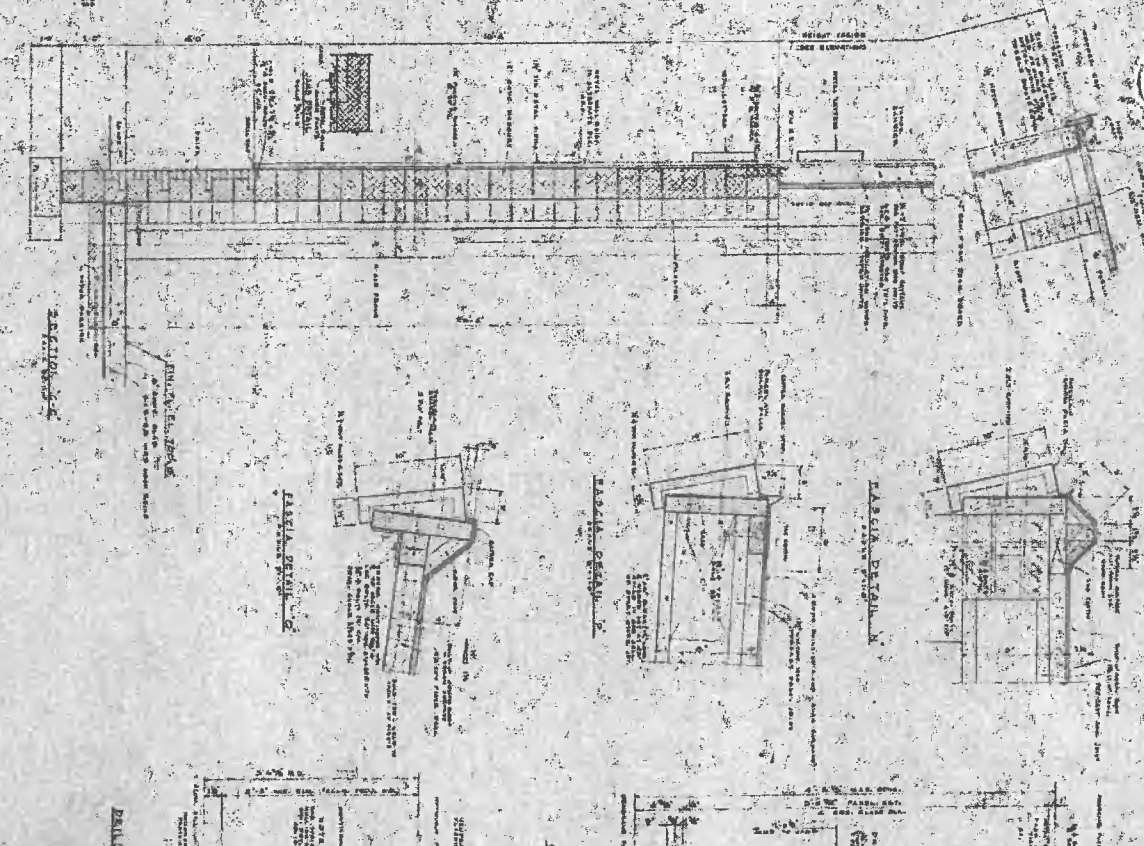
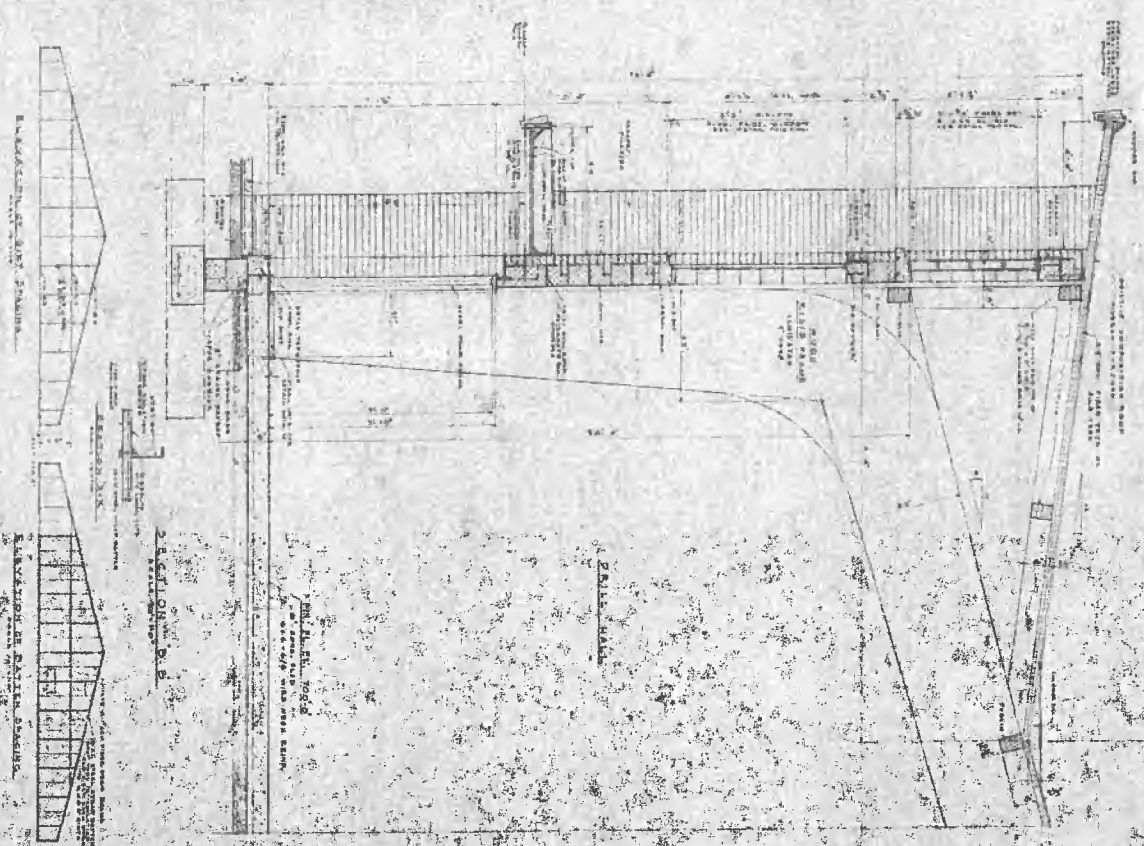
Room No.	Description	Area	Remarks
1	Entrance	100	
2	Corridor	50	
3	Office	120	
4	Storage	80	
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7	Kitchen	60	
8	Dining Room	100	
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97	Kitchen	60	
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100	Bedroom	100	

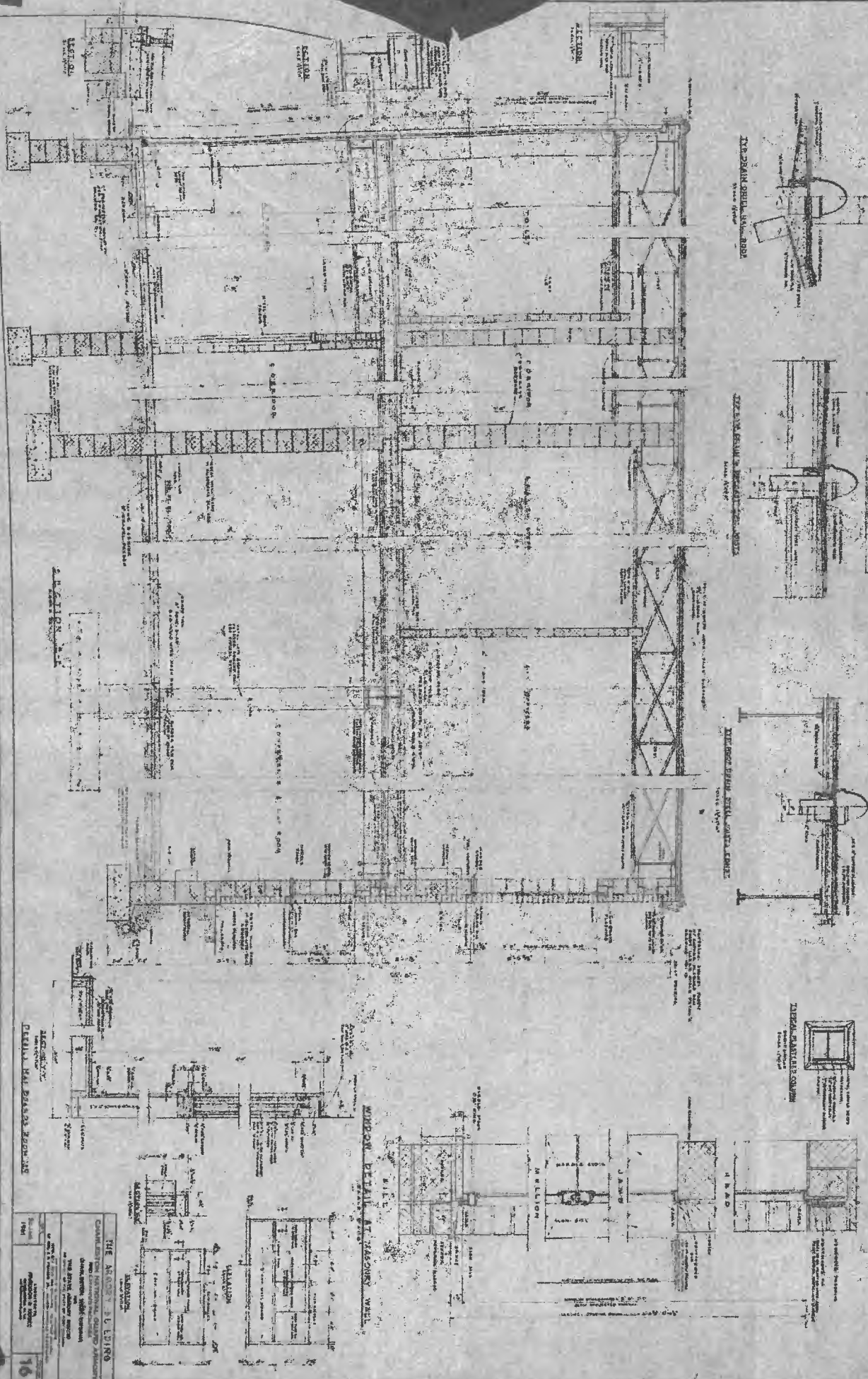
THE ARMORY BUILDING  
 CHARTERED BY THE ARMY  
 AND NAVY DEPARTMENT  
 WASHINGTON, D. C.  
 1917

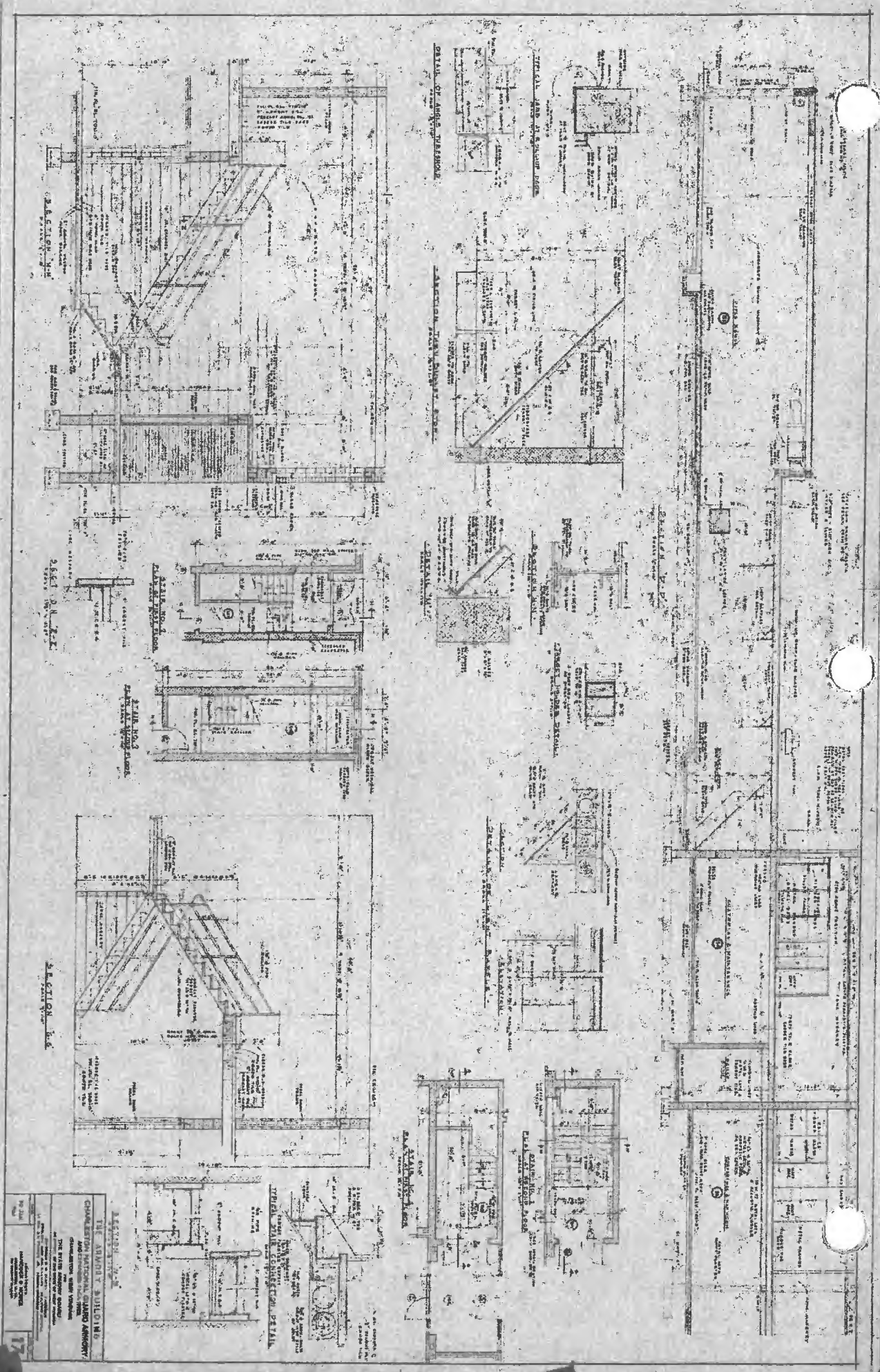




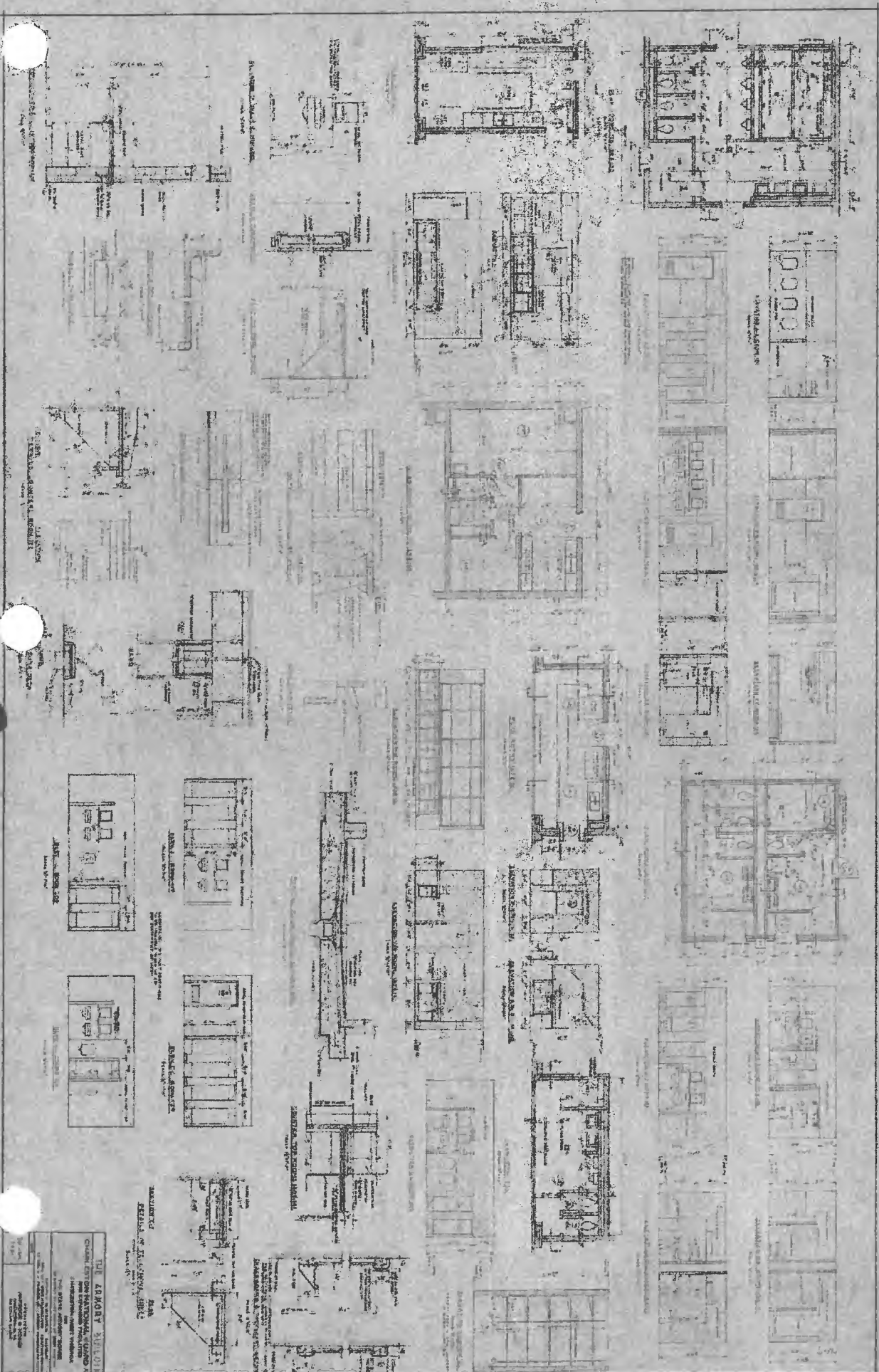
THE ARCHITECTS  
 CHASE & COMPANY  
 100 N. W. COR. 1ST & 2ND STS.  
 ST. LOUIS, MO.







THE ABRAHAM LINCOLN  
CHARLESTON NATIONAL GUARD ARMORY  
DESIGNED BY THE U.S. ARMY CORPS OF ENGINEERS  
1917



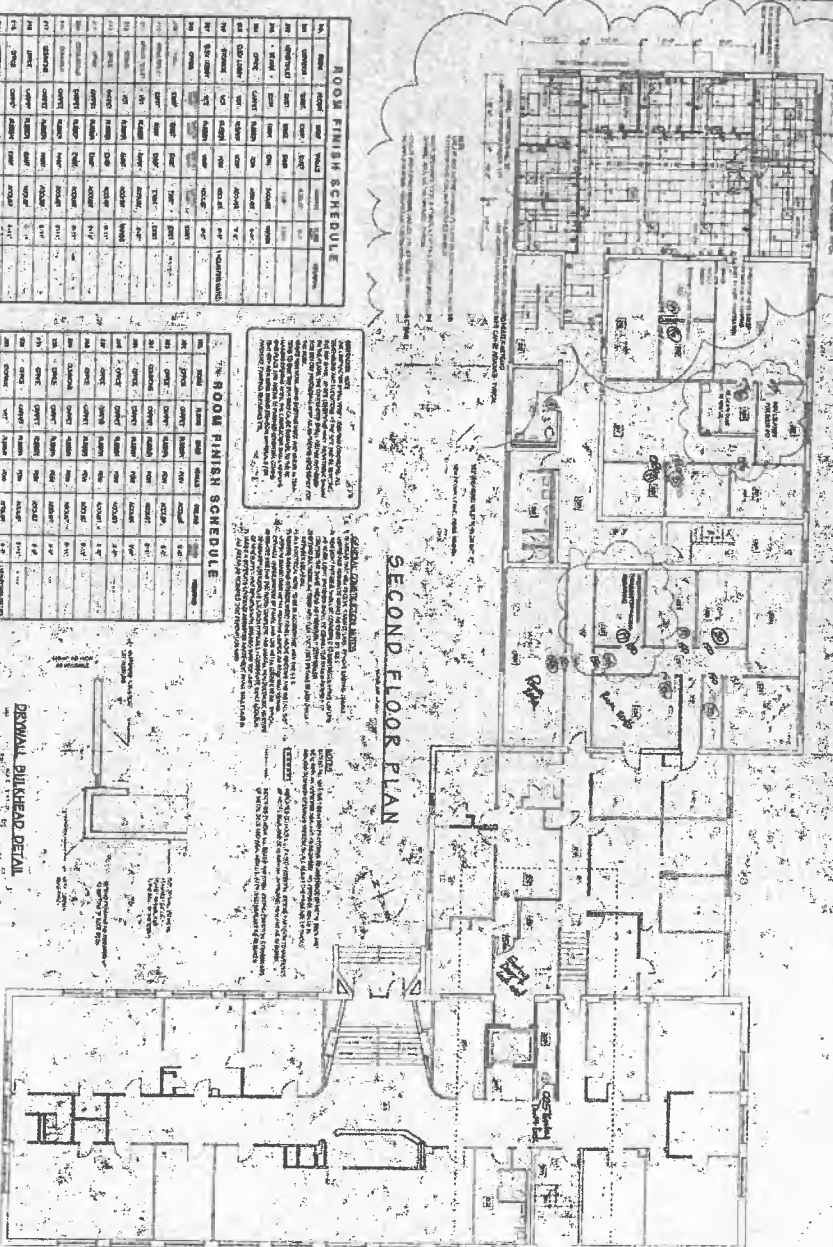
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TO THE  
HONORABLE  
MEMBERS OF THE  
LEGISLATIVE COUNCIL

D-WARLESTON  
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 HEADQUARTERS  
 BUILDINGS  
 D.A.  
 OPERATIONS

SECOND FLOOR PLAN



MOON FINISH SCHEDULE										
Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th
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ROOM FINISH SCHEDULE											
NO.	ROOM	FINISH	DATE	NO.	ROOM	FINISH	DATE	NO.	ROOM	FINISH	DATE
101	DRY	DRY	10/10/54	102	DRY	DRY	10/10/54	103	DRY	DRY	10/10/54
104	DRY	DRY	10/10/54	105	DRY	DRY	10/10/54	106	DRY	DRY	10/10/54
107	DRY	DRY	10/10/54	108	DRY	DRY	10/10/54	109	DRY	DRY	10/10/54
110	DRY	DRY	10/10/54	111	DRY	DRY	10/10/54	112	DRY	DRY	10/10/54
113	DRY	DRY	10/10/54	114	DRY	DRY	10/10/54	115	DRY	DRY	10/10/54
116	DRY	DRY	10/10/54	117	DRY	DRY	10/10/54	118	DRY	DRY	10/10/54
119	DRY	DRY	10/10/54	120	DRY	DRY	10/10/54	121	DRY	DRY	10/10/54
122	DRY	DRY	10/10/54	123	DRY	DRY	10/10/54	124	DRY	DRY	10/10/54
125	DRY	DRY	10/10/54	126	DRY	DRY	10/10/54	127	DRY	DRY	10/10/54
128	DRY	DRY	10/10/54	129	DRY	DRY	10/10/54	130	DRY	DRY	10/10/54
131	DRY	DRY	10/10/54	132	DRY	DRY	10/10/54	133	DRY	DRY	10/10/54
134	DRY	DRY	10/10/54	135	DRY	DRY	10/10/54	136	DRY	DRY	10/10/54
137	DRY	DRY	10/10/54	138	DRY	DRY	10/10/54	139	DRY	DRY	10/10/54
140	DRY	DRY	10/10/54	141	DRY	DRY	10/10/54	142	DRY	DRY	10/10/54
143	DRY	DRY	10/10/54	144	DRY	DRY	10/10/54	145	DRY	DRY	10/10/54
146	DRY	DRY	10/10/54	147	DRY	DRY	10/10/54	148	DRY	DRY	10/10/54
149	DRY	DRY	10/10/54	150	DRY	DRY	10/10/54	151	DRY	DRY	10/10/54
152	DRY	DRY	10/10/54	153	DRY	DRY	10/10/54	154	DRY	DRY	10/10/54
155	DRY	DRY	10/10/54	156	DRY	DRY	10/10/54	157	DRY	DRY	10/10/54
158	DRY	DRY	10/10/54	159	DRY	DRY	10/10/54	160	DRY	DRY	10/10/54
161	DRY	DRY	10/10/54	162	DRY	DRY	10/10/54	163	DRY	DRY	10/10/54
164	DRY	DRY	10/10/54	165	DRY	DRY	10/10/54	166	DRY	DRY	10/10/54
167	DRY	DRY	10/10/54	168	DRY	DRY	10/10/54	169	DRY	DRY	10/10/54
170	DRY	DRY	10/10/54	171	DRY	DRY	10/10/54	172	DRY	DRY	10/10/54
173	DRY	DRY	10/10/54	174	DRY	DRY	10/10/54	175	DRY	DRY	10/10/54
176	DRY	DRY	10/10/54	177	DRY	DRY	10/10/54	178	DRY	DRY	10/10/54
179	DRY	DRY	10/10/54	180	DRY	DRY	10/10/54	181	DRY	DRY	10/10/54
182	DRY	DRY	10/10/54	183	DRY	DRY	10/10/54	184	DRY	DRY	10/10/54
185	DRY	DRY	10/10/54	186	DRY	DRY	10/10/54	187	DRY	DRY	10/10/54
188	DRY	DRY	10/10/54	189	DRY	DRY	10/10/54	190	DRY	DRY	10/10/54
191	DRY	DRY	10/10/54	192	DRY	DRY	10/10/54	193	DRY	DRY	10/10/54
194	DRY	DRY	10/10/54	195	DRY	DRY	10/10/54	196	DRY	DRY	10/10/54

[illegible]

**RESEARCH AND DEVELOPMENT**—The company is currently conducting research and development on a number of projects, including the development of a new line of products, the development of a new manufacturing process, and the development of a new distribution system. The company is also conducting research and development on a number of other projects, including the development of a new line of products, the development of a new manufacturing process, and the development of a new distribution system.

No.

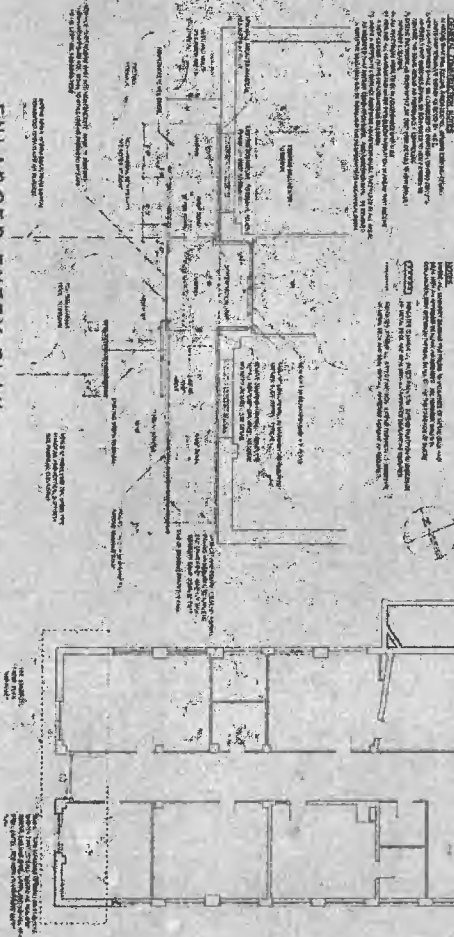
**Abstract**—The purpose of this study was to determine the effect of a 12-week training program on the physical fitness and health of sedentary, middle-aged men. The program consisted of three sessions per week, each lasting 45 minutes. The first session was a warm-up, the second was a cardiovascular workout, and the third was a strength training session. The results showed that the participants experienced significant improvements in their cardiovascular fitness, strength, and body composition. The program was well-tolerated and had no adverse effects on the participants' health.

**DRYMAID BULKHEAD DETAIL**

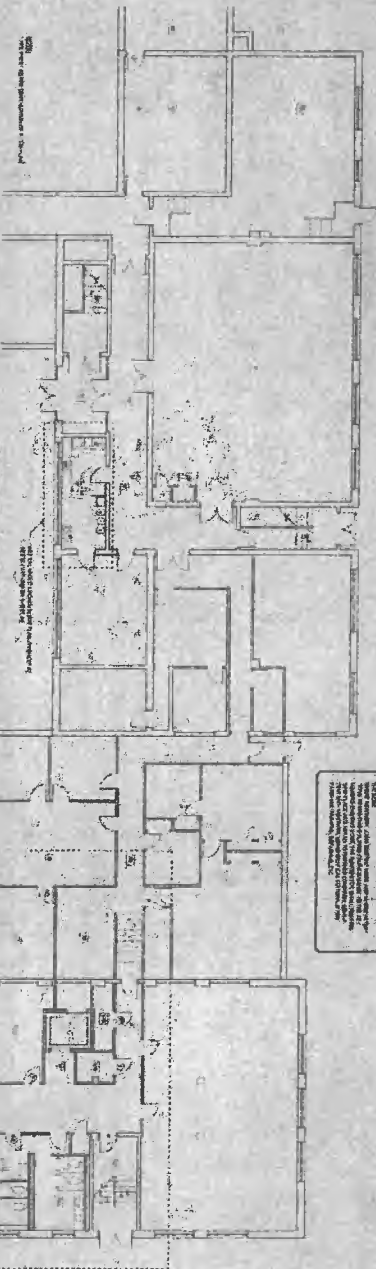
2

ROOM FINISH SCHEDULE									
NO.	SYMBOL	NAME	FINISH	THICKNESS	UNIT	QTY.	REMARKS	DATE	BY
1	1	CEILING	AC	1/2"	SQ. FT.	1,200	ACETYLENE CUT		
2	2	FLOOR	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
3	3	WALL	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
4	4	DOOR	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
5	5	WINDOW	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
6	6	STAIR	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
7	7	ROOF	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
8	8	CHIMNEY	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
9	9	SMOKESTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
10	10	WATERSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
11	11	SEWERSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
12	12	VENTSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
13	13	FLUESTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
14	14	CHIMNEY	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
15	15	SMOKESTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
16	16	WATERSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
17	17	SEWERSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
18	18	VENTSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
19	19	FLUESTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
20	20	CHIMNEY	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
21	21	SMOKESTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
22	22	WATERSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
23	23	SEWERSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
24	24	VENTSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
25	25	FLUESTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
26	26	CHIMNEY	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
27	27	SMOKESTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
28	28	WATERSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
29	29	SEWERSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
30	30	VENTSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
31	31	FLUESTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
32	32	CHIMNEY	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
33	33	SMOKESTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
34	34	WATERSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
35	35	SEWERSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
36	36	VENTSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
37	37	FLUESTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
38	38	CHIMNEY	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
39	39	SMOKESTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
40	40	WATERSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
41	41	SEWERSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
42	42	VENTSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
43	43	FLUESTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
44	44	CHIMNEY	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
45	45	SMOKESTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
46	46	WATERSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
47	47	SEWERSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
48	48	VENTSTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
49	49	FLUESTACK	1/2"	IN.	SQ. FT.	1,200	CONCRETE		
50	50	CHIMNEY	1/2"	IN.	SQ. FT.	1,200	CONCRETE		

# ENLARGED ENTRY PLAN



## FIRST FLOOR PLAN



NOTES:  
1. ALL DIMENSIONS ARE IN FEET AND INCHES.  
2. ALL WALLS ARE 1/2" THICK UNLESS OTHERWISE NOTED.  
3. ALL FLOORS ARE 1/2" THICK UNLESS OTHERWISE NOTED.  
4. ALL CEILINGS ARE 1/2" THICK UNLESS OTHERWISE NOTED.  
5. ALL DOORS ARE 1/2" THICK UNLESS OTHERWISE NOTED.  
6. ALL WINDOWS ARE 1/2" THICK UNLESS OTHERWISE NOTED.  
7. ALL STAIRS ARE 1/2" THICK UNLESS OTHERWISE NOTED.  
8. ALL ROOFS ARE 1/2" THICK UNLESS OTHERWISE NOTED.  
9. ALL CHIMNEYS ARE 1/2" THICK UNLESS OTHERWISE NOTED.  
10. ALL SMOKESTACKS ARE 1/2" THICK UNLESS OTHERWISE NOTED.  
11. ALL WATERSTACKS ARE 1/2" THICK UNLESS OTHERWISE NOTED.  
12. ALL SEWERSTACKS ARE 1/2" THICK UNLESS OTHERWISE NOTED.  
13. ALL VENTSTACKS ARE 1/2" THICK UNLESS OTHERWISE NOTED.  
14. ALL FLUESTACKS ARE 1/2" THICK UNLESS OTHERWISE NOTED.



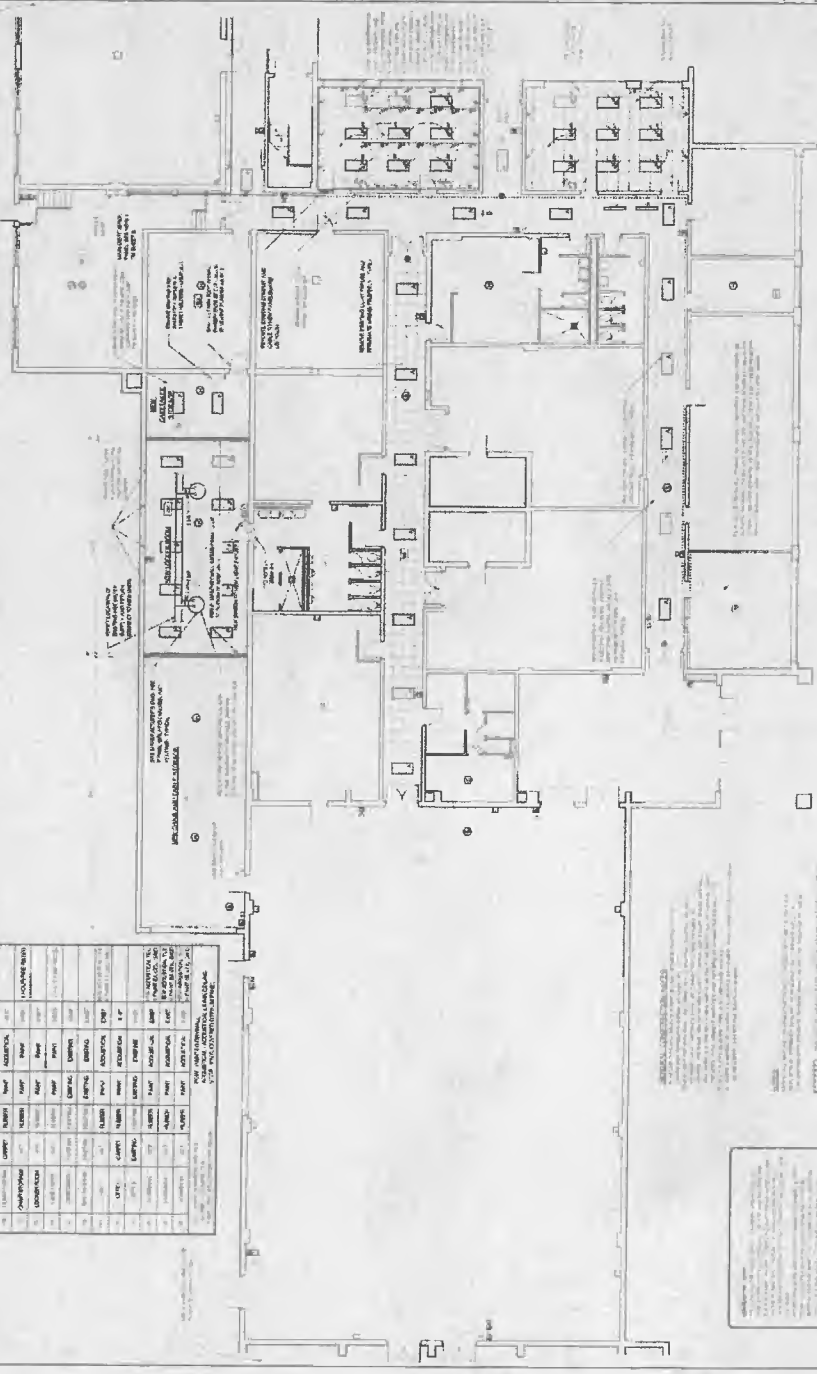
JERRY  
G. O. F.  
A. S. E. R.  
V. I. C. E.

DESIGN  
ARCHITECT  
BUILDINGS  
104  
RESIDENCE

1  
11



NO.	ROOM	FINISH	DATE	REVISION	REVISION
1	ARMORY	PAINT	10/10/08	1	PAINT
2	HEADQUARTERS	PAINT	10/10/08	1	PAINT
3	CLUBHOUSE	PAINT	10/10/08	1	PAINT
4	DRILL HALL	PAINT	10/10/08	1	PAINT
5	OFFICE	PAINT	10/10/08	1	PAINT
6	RESTROOM	PAINT	10/10/08	1	PAINT
7	LOCKER ROOM	PAINT	10/10/08	1	PAINT
8	STORAGE	PAINT	10/10/08	1	PAINT
9	MECHANICAL	PAINT	10/10/08	1	PAINT
10	ENTRY	PAINT	10/10/08	1	PAINT
11	LOBBY	PAINT	10/10/08	1	PAINT
12	CONFERENCE	PAINT	10/10/08	1	PAINT
13	TRAINING	PAINT	10/10/08	1	PAINT
14	GYMNASIUM	PAINT	10/10/08	1	PAINT
15	RESTROOM	PAINT	10/10/08	1	PAINT
16	LOCKER ROOM	PAINT	10/10/08	1	PAINT
17	STORAGE	PAINT	10/10/08	1	PAINT
18	MECHANICAL	PAINT	10/10/08	1	PAINT
19	ENTRY	PAINT	10/10/08	1	PAINT
20	LOBBY	PAINT	10/10/08	1	PAINT
21	CONFERENCE	PAINT	10/10/08	1	PAINT
22	TRAINING	PAINT	10/10/08	1	PAINT
23	GYMNASIUM	PAINT	10/10/08	1	PAINT
24	RESTROOM	PAINT	10/10/08	1	PAINT
25	LOCKER ROOM	PAINT	10/10/08	1	PAINT
26	STORAGE	PAINT	10/10/08	1	PAINT
27	MECHANICAL	PAINT	10/10/08	1	PAINT
28	ENTRY	PAINT	10/10/08	1	PAINT
29	LOBBY	PAINT	10/10/08	1	PAINT
30	CONFERENCE	PAINT	10/10/08	1	PAINT
31	TRAINING	PAINT	10/10/08	1	PAINT
32	GYMNASIUM	PAINT	10/10/08	1	PAINT
33	RESTROOM	PAINT	10/10/08	1	PAINT
34	LOCKER ROOM	PAINT	10/10/08	1	PAINT
35	STORAGE	PAINT	10/10/08	1	PAINT
36	MECHANICAL	PAINT	10/10/08	1	PAINT
37	ENTRY	PAINT	10/10/08	1	PAINT
38	LOBBY	PAINT	10/10/08	1	PAINT
39	CONFERENCE	PAINT	10/10/08	1	PAINT
40	TRAINING	PAINT	10/10/08	1	PAINT
41	GYMNASIUM	PAINT	10/10/08	1	PAINT
42	RESTROOM	PAINT	10/10/08	1	PAINT
43	LOCKER ROOM	PAINT	10/10/08	1	PAINT
44	STORAGE	PAINT	10/10/08	1	PAINT
45	MECHANICAL	PAINT	10/10/08	1	PAINT
46	ENTRY	PAINT	10/10/08	1	PAINT
47	LOBBY	PAINT	10/10/08	1	PAINT
48	CONFERENCE	PAINT	10/10/08	1	PAINT
49	TRAINING	PAINT	10/10/08	1	PAINT
50	GYMNASIUM	PAINT	10/10/08	1	PAINT
51	RESTROOM	PAINT	10/10/08	1	PAINT
52	LOCKER ROOM	PAINT	10/10/08	1	PAINT
53	STORAGE	PAINT	10/10/08	1	PAINT
54	MECHANICAL	PAINT	10/10/08	1	PAINT
55	ENTRY	PAINT	10/10/08	1	PAINT
56	LOBBY	PAINT	10/10/08	1	PAINT
57	CONFERENCE	PAINT	10/10/08	1	PAINT
58	TRAINING	PAINT	10/10/08	1	PAINT
59	GYMNASIUM	PAINT	10/10/08	1	PAINT
60	RESTROOM	PAINT	10/10/08	1	PAINT
61	LOCKER ROOM	PAINT	10/10/08	1	PAINT
62	STORAGE	PAINT	10/10/08	1	PAINT
63	MECHANICAL	PAINT	10/10/08	1	PAINT
64	ENTRY	PAINT	10/10/08	1	PAINT
65	LOBBY	PAINT	10/10/08	1	PAINT
66	CONFERENCE	PAINT	10/10/08	1	PAINT
67	TRAINING	PAINT	10/10/08	1	PAINT
68	GYMNASIUM	PAINT	10/10/08	1	PAINT
69	RESTROOM	PAINT	10/10/08	1	PAINT
70	LOCKER ROOM	PAINT	10/10/08	1	PAINT
71	STORAGE	PAINT	10/10/08	1	PAINT
72	MECHANICAL	PAINT	10/10/08	1	PAINT
73	ENTRY	PAINT	10/10/08	1	PAINT
74	LOBBY	PAINT	10/10/08	1	PAINT
75	CONFERENCE	PAINT	10/10/08	1	PAINT
76	TRAINING	PAINT	10/10/08	1	PAINT
77	GYMNASIUM	PAINT	10/10/08	1	PAINT
78	RESTROOM	PAINT	10/10/08	1	PAINT
79	LOCKER ROOM	PAINT	10/10/08	1	PAINT
80	STORAGE	PAINT	10/10/08	1	PAINT
81	MECHANICAL	PAINT	10/10/08	1	PAINT
82	ENTRY	PAINT	10/10/08	1	PAINT
83	LOBBY	PAINT	10/10/08	1	PAINT
84	CONFERENCE	PAINT	10/10/08	1	PAINT
85	TRAINING	PAINT	10/10/08	1	PAINT
86	GYMNASIUM	PAINT	10/10/08	1	PAINT
87	RESTROOM	PAINT	10/10/08	1	PAINT
88	LOCKER ROOM	PAINT	10/10/08	1	PAINT
89	STORAGE	PAINT	10/10/08	1	PAINT
90	MECHANICAL	PAINT	10/10/08	1	PAINT
91	ENTRY	PAINT	10/10/08	1	PAINT
92	LOBBY	PAINT	10/10/08	1	PAINT
93	CONFERENCE	PAINT	10/10/08	1	PAINT
94	TRAINING	PAINT	10/10/08	1	PAINT
95	GYMNASIUM	PAINT	10/10/08	1	PAINT
96	RESTROOM	PAINT	10/10/08	1	PAINT
97	LOCKER ROOM	PAINT	10/10/08	1	PAINT
98	STORAGE	PAINT	10/10/08	1	PAINT
99	MECHANICAL	PAINT	10/10/08	1	PAINT
100	ENTRY	PAINT	10/10/08	1	PAINT



DRILL HALL FLOOR PLAN

NOTES:  
1. SEE ROOM FINISH SCHEDULE FOR FINISHES.  
2. SEE MECHANICAL SCHEDULE FOR MECHANICALS.  
3. SEE ELECTRICAL SCHEDULE FOR ELECTRICALS.  
4. SEE PLUMBING SCHEDULE FOR PLUMBING.  
5. SEE PAINT SCHEDULE FOR PAINTS.  
6. SEE FURNITURE SCHEDULE FOR FURNITURE.  
7. SEE LIGHTING SCHEDULE FOR LIGHTING.  
8. SEE DOOR SCHEDULE FOR DOORS.  
9. SEE WINDOW SCHEDULE FOR WINDOWS.  
10. SEE CEILING SCHEDULE FOR CEILING.  
11. SEE FLOOR SCHEDULE FOR FLOOR.  
12. SEE WALL SCHEDULE FOR WALLS.  
13. SEE ROOF SCHEDULE FOR ROOF.  
14. SEE EXTERIOR SCHEDULE FOR EXTERIOR.  
15. SEE INTERIOR SCHEDULE FOR INTERIOR.  
16. SEE FINISH SCHEDULE FOR FINISHES.  
17. SEE MECHANICAL SCHEDULE FOR MECHANICALS.  
18. SEE ELECTRICAL SCHEDULE FOR ELECTRICALS.  
19. SEE PLUMBING SCHEDULE FOR PLUMBING.  
20. SEE PAINT SCHEDULE FOR PAINTS.  
21. SEE FURNITURE SCHEDULE FOR FURNITURE.  
22. SEE LIGHTING SCHEDULE FOR LIGHTING.  
23. SEE DOOR SCHEDULE FOR DOORS.  
24. SEE WINDOW SCHEDULE FOR WINDOWS.  
25. SEE CEILING SCHEDULE FOR CEILING.  
26. SEE FLOOR SCHEDULE FOR FLOOR.  
27. SEE WALL SCHEDULE FOR WALLS.  
28. SEE ROOF SCHEDULE FOR ROOF.  
29. SEE EXTERIOR SCHEDULE FOR EXTERIOR.  
30. SEE INTERIOR SCHEDULE FOR INTERIOR.

WEST VIRGINIA  
NATIONAL GUARD ARMORY







